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# Human Geography Text Book متون جغرافیای انسانی به زبان خارجی ۱ (رشته جغرافیا)

نویسنده: مینو عسج*دی* 

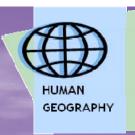
تهیه کننده: نسرین نیک اندیش

تعداد اسلاید: ۳۰۰

تابستان ۱۳۸۵







#### General Aim

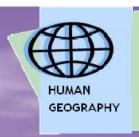
This lesson states several facts about the earth's atmospheric and its relation to weather and climate on the earth and teaches several common and key words in geography.

#### • هدف کلی:

در آین درس مطالبی در مورد اتمسفر زمین و ارتباطش با هوا و اقلیم و چند لغت عام و چند واژه کلیدی در مورد جغرافیا ارائه شده است.







- Behavioral Objectives
   After study this lesson, you will be able to:
- 1. Do the comprehension exercises 1.1.B and 1.1.C.
- Define the meaning of the *common words* and do the exercises 1.2.A.
- 3. Define the meaning of the *key words* and do the exercises 1.3.A.



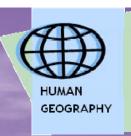




- 4. Learn the function and meaning of the conjunctions *however* and *although*. Then do exercises 1.4.A.
- Learn the use of relative pronouns when and which in a sentence. Then do exercises 1.5.A.
- 6. Translate the paragraph 1.6 into Persian.



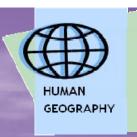




- 1.1.A. Pre- reading Questions
- 1. Do you think the *earth's atmospheric* is important? Why?
- 2. How is *weather* and the *atmosphere* related?
- 3. What is the *importance of climatology*?







Common Words: Definition and exemplification

imponent(n): member, part

Depend on (v): count on, trust

habitable(adj): fit to be live in

natural(adj): common, normal

Extent (n): degree, range

create(v): make, build

جز ء تر کیب دهنده

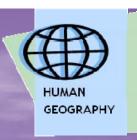
بستگی داشتن

قابل سکونت ، قابل زیست طبیعی

وسعت ، حد

خلق کردن ، آفریدن





Common Words: Definition and exemplification

Area (n): field

divide (v): break, make into section

concern (v): interest, be busy with

Motion (n): movement, wave

Deal with (v): consider

Condition (n): position state of things

محدوده ، سرزمین

تقسیم کردن

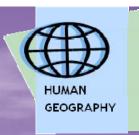
مربوط بودن

مورد بحث قرار دادن

شرايط، وضعيت







Common Words: Definition and exemplification

Specific (adj): exact, special

location (n): place, point

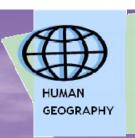
Surface (n): outside of an object

ویژه ، مخصوص

موقع ، محل ، قرارگیری

سطح





Key Words: Definition and exemplification

Atmosphere (n): gases around the earth

Planet (n): one of the bodies which moves around the sun like earth

environment (n): condition, climate

Atmospheric science (n): a science
which carefully studies the
atmosphere

اتمسفر ، جو

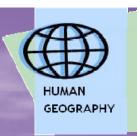
سياره

محيط

علوم جوی ، اتمسفری







Key Words: Definition and exemplification

Horecast (v): say what will happen in weather
Weather (n): condition of the environment in an area

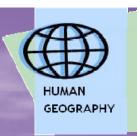
meteorology (n): science of the weather in a short period of time

پیش بینی

هوا

هو اشناسي





Key Words: Definition and exemplification

climatology (n): science of the weather in a longer period of time

Climate (n): weather condition of an area

Geography (n): science of the earth's surface

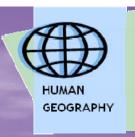
اقليم شناسي

آب و هوا ، اقليم

جغرافيا



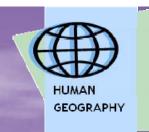




Translate the following paragraphs

The earth's atmosphere is an important component of the planet's environment. Life on the earth depends on it's atmosphere. If the earth had a different atmosphere, then it would not be the habitable place that is today. Therfore it is natural that the atmosphere has been carefully studied for many years. The extent of these studies has created an area of study which is called atmospheric science.

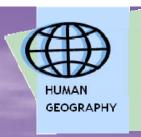




جو زمین جزء مهم محیط سیاره است. زندگی بر روی زمین به جو آن بستگی دارد. اگر زمین جوی متفاوت می داشت، مانند امروز قابل سکونت نبود. بنابر این طبیعی است که جو زمین در سالهای زیادی بدقت مطالعه گردد. محدوده این مطالعات یک زمینه مطالعاتی موسوم به علوم جوی ایجاد نموده است.







Climatology deals with atmospheric condition over a longer time period. It shows the changes in weather. Climate has a close relation to weather, therefore it is clearly part of meteorology. However climatology is also concerned with specific climatic conditions at different location on the earth's surface. Therefore it is also part of geography.

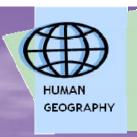




اقلیم شناسی شرایط اتمسفر را در دوره زمانی طولانی تر بررسی می کند. این علم تغییرات هو را نشان می دهد. اقلیم ارتباط نزدیکی با هوا دارد ، بنابر این بوضوح جزئی از هواشناسی است بهر حال اقلیم شناسی همچنین شرایط ویژه اقلیمی در مكانهای متفاوت سطح زمین را بررسی می كند. بنابر این بخشی از جغرافیا می باشد.





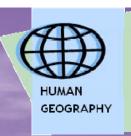


- 1.1.B. Comprehension
   Read the following statements and based on the passage Atmospheric
   Science decide which are true (T) and
- With a different atmosphere earth would still be the same.
- 2. Climatology tries to forecast weather.

which are false (F):



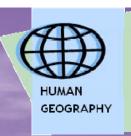




- 1.1.c. Answering detailed questions
- Choose the correct answer to fill in the blank:
- 1. ..... is a part of geography
- A. Wind and rain
- Meteorology
- **√**C. Climatology
  - D. Weather in different days



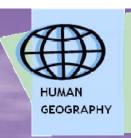




- 2. Atmospheric science is divided into two main area ......
- A. Weather and meteor
- √ B. Climatology and meteorology
  - Weather and Climatology
  - D. Climate and weather







#### 1.2.A. Exercises

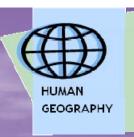
Fill in the blanks with the correct form of one of the following words.

Component, location, habitable, depend on , specific

- 1. His family depends only on his salary
- 2. I had a specific question to ask. habitable
- 3. A place with no water is not ...... for human







- 1.4. Grammatical points
- Compare the following sentences:
- A. I studied hard. I did not pass the exam.
- Although I studied hard , I did not pass the exam.
- C. I studied hard, however I did not pass the exam.

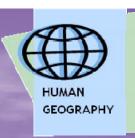




در مثال A دو جمله ساده که به نوعی با یکدیگر در تضاد می باشند آمده است. در دو مثال B و C همان دو جمله با استفاده از حروف ربط however و Although با یکدیگر ترکیب شده اند و تشکیل یک جمله را داده اند. ای دو جمله معنای متضاد مثال A را در خود حفظ کرده است.







- 1.4.A. Exercises
  - Use *although* and *however* for the following exercises.
- 1. The weather is sunny. The degree shows below zero.
- Although the weather was sunny, it was quite cold.
- 2. The earth seems to be flat. The earth is really round.
- The earth seems to be flat, however it is really round.







- 1.5. Grammatical points
- Compare the following sentences:
- LA. The earth is round. The earth can be measured in terms of degree.
- 1.B. The earth which is round can be measured in terms of degree.
- 2.A. The man is sitting. He is my teacher.
- 2.B. The man who is sitting is my teacher.

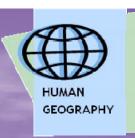




در هر کدام از مثالهای 1.A و 1.B دو جمله ساده آمده است. در هر دو مثال جمله ها به یکدیگر مربوط و در مورد موضوعی یکسان و یا انجام کارهایی در زمانی یکسان صحبت می کنند. در مثالهای 2.A و 2.B این جملات با استفاده از ضمایر ربطی who و which و who یکدیگر ترکیب شده اند و جملات واحدی را تشکیل داده اند.



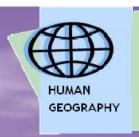




- 1.5.A. Exercises
  - Use which and who for the following exercises.
- 1. We went to see a movie. The movie was very interesting.
- The movie *which* we went to see was very interesting.
- I called my friend. She is a doctor.
- I called my friend who is a doctor.







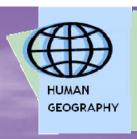
#### General Aim

This lesson introduces the solar energy and states the process through which it reaches the surface of the earth and teaches several common and key words in geography.

#### • هدف کلی:

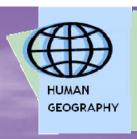
این درس با مطالبی در مورد انرژی خورشیدی آغاز گردیده و فرآیندی که انرژی به سطح زمین می رسد را بیان می کند. همچنین در این درس چند لغت عام و چند و اژه کلیدی در مورد جغرافیا ارائه شده است.





- Behavioral Objectives
   After study this lesson, you will be able to:
- 1. Do the comprehension exercises 2.1.B and 2.1.C.
- Define the meaning of the *common words* and do the exercises 2.2.
- 3. Define the meaning of the *key words* and do the exercises 2.3.





- 4. Learn the use and omission of the relative pronouns in a sentence. Then do exercises 2.4.A.
- Learn the meaning and use of adverbs also and too. Then do exercises 2.5.A.
- 6. Translate the paragraph 2.6 into Persian.





- 2.1.A. Pre- reading Questions
- 1. Do you think that we need to replace oil as main source of energy with another source?
- What dose atmosphere do to the sun rays when they reach the earth?
- 3. Do you think the use of *solar energy* is possible and practical?





Common Words: Definition and exemplification

crisis (n): time of difficulty, problem

source (n): beginning, root

Supplement (v): add later to complete or make better

replace (v): come in place of something else

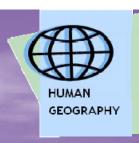
بحران

منبع ، منشاء ، مبداء

تكميل كردن

جایگزین کردن : جانشین شدن





Common Words: Definition and exemplification

Distribution (n): condition of giving or sending out

پراکندگی ، توزیع

throughout (adv): during the سراسر ، تماماً ، در سرتاسر whole time and action

determine (v): be the fact that تعبین کردن، معلوم کردن decides

Receive (v): accept, get

دریافت کردن ، قبول کردن





Common Words: Definition and exemplification

low (n): coming, current

جریان ، جاری ، روانی

modify (v): make changes in تغییر دادن ، اصلاح کردن ، اصلاح کردن مناسب کردن

particle (n): very small bit, piece

خرده، ریزه، ذرات

Dense (adj): thick

انبوه ، متراکم

absorb (v): take in, suck in

جذب کردن ، مکیدن





Key Words: Definition and exemplification

Energy (n): power

Tilt (n): sloping position

horizon (n): the line at which the earth and sea or sky seem to meet

solar (adj): of the sun

انرژی ، نیرو

کجی ، انحراف

افق

خورشیدی ، شمسی







#### 2.2.A. Exercises

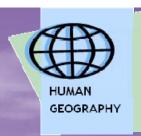
Fill in the blanks with the correct form of one of the following words.

Crisis, supplement, source, replace, distribution, throughout

- Oil is the main **SOUTCE**. of energy
- The use of heating oil is being supplement by gas in Iran.
- 3. The political crisis In Iran led to







Key Words: Definition and exemplification

radiation): sending out of تشعشع ، پرتو افکنی energy , heat and etc. in rays ناماع ، پرتو ناماع ، پرتو

Solar energy collection (n): a place in which energy of sun is received and kept.

مرکز جذب و نگهداری انرژی







- Translate the following paragraphs
- 1. In this century, energy crisis has led to a search for different kinds of energy sources. Scientists are trying to find a source which might supplement, or even replace oil as the main energy sources which has attracted scientist's attention. However, the distribution of solar energy have several aspects





در قرن حاضر ، بحران انرژی به تحقیق در مورد انوع مختلف منابع انرژی منتهی گردیده است دانشمندان در حال تلاش برای یافتن منبعی می باشند که ممکن است مکمل نفت و یا حتی جایگزین آن بعنوان منبع اصلی انرژی باشد. انرژی خورشیدی یکی از منابعی است که توجه دانشمندان را جلب کرده است. در هر حال انرژی خورشیدی به چند طریق توزیع می گردد.

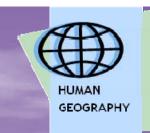






Secondly, the gases around the earth control the flow of solar energy to the surface of the earth. When the sun's rays pass into upper parts of the atmosphere, they are not modified very much. After passing future into the atmosphere, the solar beam reaches parts in which gases and particles are dense. The dense parts modify the flow of the sun's rays.





دوم اینکه گازهای اطراف زمین جریان انرژی خورشیدی به سطح زمین را کنترل می کنند زمانی که اشعه خور شید از بخشهای فوقانی جو می گذرد ، زیاد تغییر نمی کنند. پس از عبور بیشتر از جو ، اشعه خورشید به بخشهایی می رسد که گاز ها و ذرات متراکم گردیده اند. بخشهای متراکم مزبور جریان تشعشع خورشیدی را تغییر می دهند.

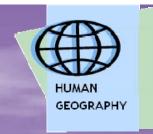






- 2.1.B. Comprehension
  - Read the following statements and based on the passage Solar Energy decide which are true (T) and which are false (F):
- 1. Solar energy is the main energy source in this age.
- 2. The flow of solar energy to the surface of the earth is controlled.
- 3. Scientists have different views about using the solar energy





- 2.1.c. Answering detailed questions
- Choose the correct answer to fill in the blank:
- 1. However in the first paragraph can be replace by ......
- A. therefore
- √B. although
  - C. thus
  - D. then







- 2. The flow of solar energy is more modified by the .......
- A. Clouds in the sky
- B. Tin parts of the atmosphere
- Dense parts of the atmosphere
  - D. All of the above







- 2.4. Grammatical points
  - Compare the following sentences:
  - LA. I give him geography book. He wanted the geography book.
- 1.B. I give him the geography book which he wanted .
- 1.C. I give him the geography book he wanted.







- 2.A. You spoke to a man. The man was a geologist.
- 2.B. The man whom you spoke to was a geologist
- 1.C. The man you spoke to was a geologist.

چنانچه در درس قبل خواندیم ، در مثالهای 2.B و 1.B دو جمله با استفاده از ضمایر ربطی ترکیب شده اند. در مثالهای 2.C و 1.C می بینیم که ضمایر ربطی جمله ها حذف شده اند. این حذف تنها در زمانی امکان پذیر است که ضمیر ربطی در ارتباط با مفعول جمله بکار رفته باشد.







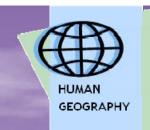
- 2.4.A. Exercises
  - Combine the following sentences first with relative pronouns and then without them.
- 1. You can telephone the people, you told me about the people.
- You can telephone the people whom you told me about.
- You can telephone the people you told me about.
- 2. There is the bus. I usually take that bus to go home.
- There is the bus which I usually take to go home. There is the bus I usually take to go home.





- 2.5. Grammatical points
- Compare the following sentences:
- LA. The tilt in the earth's axis also changes the lengths of day and night.
- 1.B. The tilt in the earth's axis changes the lengths of day and night too.
- 2.A. The coffee is too hot.
- 2.B. The coffee is so hot that I can't drink.





همانطور که در مثالهای 1.A و 1.B می بینیم ، حرف اضافه too و قید also در معنای مشابه بکار می روند در این صورت too همیشه در آخر جمله قرار می گیرد. too معنای دیگری نیز دارد که "بیش از حد ، زیاد از اندازه" است. در این صورت too دارای معنای منفی است که معمو لأقبل از صفت قرار می گیرد.







#### 2.5.A. Exercises

Fill in the blanks in each sentence with writing either Also or Too. Be careful the different meaning of Too.

- 1. Yazd is located near the desert ...too
- Will you also...take my books to the library
- 3. He run away too. fast , and I couldn't reach him.
- 4. Last night , Johan made dinner and also washed the dishes.





#### General Aim

This lesson defines the phenomena of wind and mentions few facts bout local wind and teaches several common and key words in geography.

#### • هدف کلی:

این درس پدیده باد را تعریف کرده و مطالبی را در بادهای محلی بیان می کند. همچنین در این درس چند لغت عام وچند واژه کلیدی در مورد جغرافیا ارائه شده است.





- Behavioral Objectives
   After study this lesson, you will be able to:
- 1. Do the comprehension exercises 3.1.B and 3.1.C.
- Define the meaning of the *common words* and do the exercises 3.2.
- 3. Define the meaning of the *key words* and do the exercises 3.3.







- 4. Learn the function of the connectives "and " and "as well as". Then do exercises 3.4.A.
- Learn the formation and use of participles and adjective. Then do exercises 3.5.A.
- 6. Translate the paragraph 3.6 into Persian.







- 3.1.A. Pre- reading Questions
- 1. Do you know how winds are created?
- 2. What are local winds?
- How do you think winds can be helpful?





Common Words: Definition and exemplification

Turrent (n): flow, stream

vary (v): differ, be different

Motion (n): movement

scale (n): system of measurement

asset (n): wealth

جريان

مختلف بودن ، فرق داشتن

حرکت ، جنبش

میزان ، مقیاس

دارایی





Common Words: Definition and exemplification

Approach (n): an act of منظر، نگرش approaching or viewing something

name (v): call, give a name نامگذاری کردن ، اسم گذاشتن

attribute (v): consider as a quality of , coming from

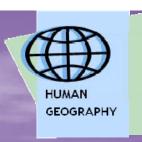
نسبت دادن ، دانستن از

Particular (adj): specific, special

خاص ، ویژه







Common Words: Definition and exemplification

Occur (v): happen

اتفاق افتادن

combine (v): join, come together

ترکیب کردن

direction (n): way, path

جهت ، مسير

characteristic (n): special mark

ویژگیها ، مشخصات

or quality, aspect descending (adj): falling,

در حال پایین آمدن ، در حال

coming or going down

نزول







### Common Words: Definition and exemplification

relate (v): connect

established (adj): settle

effect (n): result, influence

blow (v): flow as a current of air

damage (n): destroy, harm that causes loss of value

ربط دادن ، مربوط ساختن

تثبیت شده ، مستقر شده

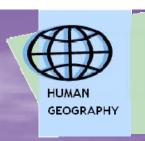
تأثير

وزيدن

خسارت ، زیان







Common Words: Definition and exemplification

Warm up (v): make warm

گرم شدن ، گرم کردن

melt (v): make into water or

آب شدن

liquid

farming (n): growing plants

accumulation (n): collecting,

pilling

کشاورز*ی* 

تجمع ، گرد آوری





### Key Words: Definition and exemplification

Light air (n): the movement of air which causes the smoke go up

Hurricane (n): very strong and باد بسیار شدید ، طوفان violent wind storm

Air mass (n): large body of air

Local winds (n): winds occurring in a particular area

توده هوا

بادهای محلی







### Key Words: Definition and exemplification

Synoptic weather pattern (n): certain common characteristics of weather in a moment of time

وضعیت سینوپتیکی هوا

topography (n): the description of the surface features of any area which has both natural and human origin

نقشه برداری موضع نگاری







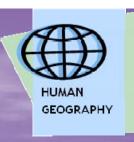
#### Key Words: Definition and exemplification

Adiabatic (adj): changing the temperature of a mass of gas which is being cooled (compressed) or heated (expansion) without actual loss or gain of heat from out side erosion (n): the state of being of destroyed

پدیده های بی در رو ( سرد شدن یا گرم شدن بی در رو)

فرسايش





#### 2.2.A. Exercises

Fill in the blanks with the correct form of one of the following words.

- Light air, hurricane, local wind, synoptic weather pattern, adiabatic, erosion, topography
- The study of the surface of the earth is called ...topography
- 2. Every part of the world might have its own Local-wind..
- 3. Hurricaneis the strongest kind of wind.





- Translate the following paragraphs
- 1. In recent years, scientists have become interested in the use of wind as an energy source. Such an interest has been the most recent approach in the ling history of human understanding of wind. This history is perhaps best shown by the way in which people throughout the world have named and attributed many things to what are local winds . Local winds are the winds that occur when a particular *synoptic weather pattern* combine with local topography.





در سالهای اخیر دانشمندان به کاربرد باد بعنو یک منبع انرژی علاقه مند شده اند. چنین علاقه او تازه ترین نگرش در تاریخ طولانی بشر از درک با بوده است شاید این تاریخ بدین نحو که مردم سراسر جهان بسیاری از چیزها را به بادهای مطی نامیده یا نسبت داده اند ، به بهترین شکل نشان داده شود. بادهای محلی بادهایی هستند که زمانی که الگوی سینویتیکی آب و هوایی ویژه ای با شرایط تویوگرافی محلی جمع شوند ، رخ می دهند.





2. The local winds have good and bad effect. A local wind which blows strongly can cause serious damage. However, a local wind such as Schneefresser in the Alp area warms up the weather and melts the snow which is good for farming. Although winds in general have affects in creating landscapes, physical geographers do not believe that a landform can only be created by wind erosion. However there is no doubt that winds play an important role in removal and accumulation of material.





بادهای محلی اثر ات خوب و بد دار ند. یک باد محل که بطور ش*دید* می وزد ، می تواند سبب خسارت جدو گر دد در هر حال یک باد محلی مانند / سکنی فر سر د منطقه آلب هوا را گرم نموده و برف را ذوب می کند ک برای کشاور زی سودمند است. گرچه بطور کلی بادها در خلق چشم اندازها مؤثر می باشند ، جغر افیدانان طبیعی اعتقاد ندار ند که یک چشم انداز فقط از طریق فرسایش بادی خلق شده باشد. در هر حال شکی نیست که بادها نقش مهمی را در انتقال و تراکم مواد ایفا می کنند.





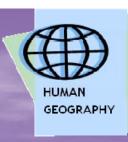
- 3.1.B. Comprehension
  - Read the following statements and based on the passage Wind decide which are true (T) and which are false (F):
- 🚺 Local winds are particular to certain area. 🕇
- Winds have only bad effects on natural and human life.
- 3. Hurricane is a kind of winds





- 3.1.c. Answering detailed questions
- Choose the correct answer to fill in the blank:
- 1. The local winds near Mediterranean sea ........
- A. Relates air to synopsis
- Join a synoptic pattern with a cold air mass
- √C. Join a specific synoptic pattern with air flow
  - None of the above





- 2. Geographers believe that wind .......
- A. is the only cause for soil ersion
- B. causes erosion in a particular topographical area
- helps the erosion of land
  - D. has no role in erosion

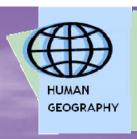




- 2.4. Grammatical points
  - Compare the following sentences:
- A. Wind can be a problem. Wind can be an asset.
- B. Wind can be a problem as well as an asset.
- C. Wind can be a problem and rain can be an asset.







در مثال A دو جمله مجزا که دارای قسمت های مشترکی هستند مشاهده می کنید. در مثال های C و B این دو جمله توسط حروف ربط as well as و and تشکیل یک جمله واحد را داده اند. در مثال D دو جمله مجزا توسط یک حرف ربط and با هم ترکیب شده اند و جمله ای مرکب از دو فعل و فاعل درست کرده است.

حرف ربط as well as تنها قسمتهایی از یک جمله را به ربط می دهد . حرف ربط می قسمتهایی از یک جمله را به ربط می دهد و یا همچنین دو جمله مستقل را با هم ترکیب کند و جمله ای مرکب بسازد.





#### 3.4.A. Exercises

Use "and" and "as well as" to combine the given sentences.

- 1. Laugh! The world laughs with you.
- Laugh and the world laughs with you.
- Local winds have paricular speed. Local winds have paricular direction.

Local winds have paricular speed and direction.

3. She is intellegent. She is hard working She is intellegent as well as hard working



### Wind



- 3.5. Grammatical points
  Look at the following sentences:
- 1.A. Adventure movies excite them
- 2.A. The movie was very exciting.
- 3.A. The excited friends spoke very loudly.
- 1.B. Lois has pleased her mother bu finishing her master's program.
- 2.B. Lois was very happy to see her mother's pleased face.
- 3.B. Lois's mother has a pleasing face.



### Wind



در مثالهای 2.A/3.A و 2.B.3.B می بینیم دو فعل excite و excite در مثالهای 1.A و excite فعل please و excite در مثالهای 1.B افزودن Ing مفتهای فعلی شده اند. همانطور که در مثالها می بینیم، دو صفت فعلی – اگرچه هر دو از یک فعل در ست شده باشند- در جمله گاه از نظر موصوف و گاه از نظر معنا با یکدیگر تفاوت دارند.



### Wind



#### 3.5.A. Exercises

Fill in the blanks using the correct participle from of each verb in parenthesis.

- He did not answer that embarrassing question. (embarrass)
- Our teacher always gives...encouraging comments about our homework . ( encourage)
- At the age of 20, he is a grown... person.
   (grow)
- 4. He comes from a distinguished Family. (distinguish)





#### General Aim

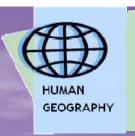
This lesson gives you an introduction on exchange of water on the surface of earth and mentions a few kinds of precipitation and teaches several common and key words in geography.

#### مدف کلی:

این درس مقدمه ای در مورد تبادل آب بر سطح زمین به شما ارائه داده و انواع بارش را ذکر می نماید. همچنین در این درس چند لغت عام و چند و اژه کلیدی در مورد جغر افیا ارائه شده است.



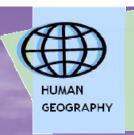




- Behavioral Objectives
   After study this lesson, you will be able to:
- 1. Do the comprehension exercises 4.1.B and 4.1.C.
- Define the meaning of the *common words* and do the exercises 4.2.
- 3. Define the meaning of the *key words* and do the exercises 4.3.







- 4. Learn one kind of conditional sentences. Then do exercises 4.4.A.
- 5. Learn the formation some English nouns. Then do exercises 4.5.A.
- *Translate* the paragraph 4.6 into Persian.

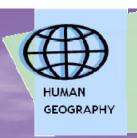






- 3.1.A. Pre- reading Questions
- 1. Do you know what is precipitation?
- 2. How snow is formed?
- Do you think warm air has more moisture or cold air?





Common Words: Definition and exemplification

exchange (n): trading, giving or eceiving

تبادل

deliver (v): pass, transfer

تحويل دادن

liquid (adj & n): substance like water or oil that flows freely

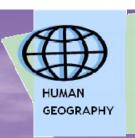
مايع

vapor (n): steam, mist

بخار







solid (adj & n): not in form of gas

or liquid, hard

contact (n): near, close, have communication rate (n): degree, measure

enter (v): to come in

جامد

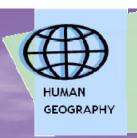
تماس ، برخورد ، مجاورت

میزان ، اندازه

وارد شدن







continue (v): carry on

ادامه دادن

eventually (adv): finally, coming at last as result

عاقبت ، بالأخر ه

drain (v): empty, decrease

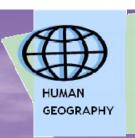
کشیدن ، تخلیه کردن

carry (v): take, support the weight of and move it from place to place

حمل کر دن







World - wide (adj): all parts of the world

جهاني

deep (adj) deeper, deepest: going the most way from the top

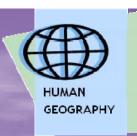
عميق

freeze (v): be so cold that water turns to ice

یخ زدن ، منجمد شدن







consist (v): include, contain

شامل بو دن

السلم (n): piece , chunk usually هخه without a regular shape

تکه ، گره ، مانند کلوخه

internal (adj): inner, inside

داخلی

structure (n): building formation, design

ساخت ، ساختمان





Common Words: Definition and exemplification

layer (n): film, covering

لايه

Onion (n): a vegetable plant with round bulb of many coats or layers

بياز

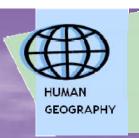
suitable (adj): fit, appropriate

مناسب

influence (v): effect, have affect

تأثیر گذاشتن بر ، نفوذ کردن بر





Common Words: Definition and exemplification

common (n): normal, regular

harmful (adj): damaging, not

useful

delay (v): make slow and late

Spread over (v): become more widely extended

عادی ، رایج

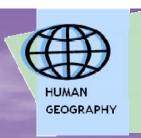
مضر، زیان آور

تأخیر کردن ، تأخیر انداختن ، طولانی کردن

پخش شدن روی







mention (v): speak or write about something

ذکر کر دن

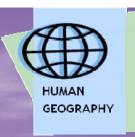
pellet (n): small ball of something گلوله، به شکل گلوله soft

agriculture (n): farming

كشاورزى







Hydrological cycle (n): the endless interchange of water between the sea, air and land

چرخه آب شناسی

moisture (n): state of being damp, humidity

رطوبت

evaporation (n): a process by which a liquid is changed into a gas

تبخبر





Key Words: Definition and exemplification

condense (v): to become thicker

متراكم شدن

precipitation (n): fall of rain, hail, snow or sleet

بارندگی

soil (n): dirt, dust, sand

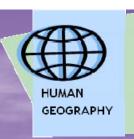
خاک

ocean (n): huge sea, great body of water that surround the land

اقيانوس







Circulation system (n): hydrological cycle

continent (n): one of the main land masses

cloud (n): a mass of tiny particles usually of water or ice

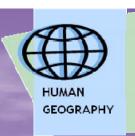
نظام گردش

قاره

ابر







moisture of atmosphere falling in drops sleet (n): falling rain mixed with ice

باران

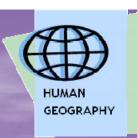
اسلیت ، له برف

snow (n): a type of precipitation which had been frozen and then partly melted

برف







Ice crystal (n): pieces of natural and clear ice

Hail (n):frozen ice drops from falling cumulonimbus cloud

كريستال يخ ، بلور يخ

تگرگ

cumulonimbus (n): a kind of cloud ابر کومولو نیمبوس which causes thunderstorm and hail







#### 1.4.A. Exercises

Fill in the blanks with the correct form of one of the following words.

- Hydrological cycle, moisture, evaporation, precipitation, ocean, hail, condense
- Precipitation is caused by the condense...

  Of moisture in the air.
- 2. heat evaporates.. water
- 3. Hall stones can be in different sizes.







- Translate the following paragraphs
- 1. The various exchange of water on the surface of the earth can be shown by the hydrological cycle. The water of oceans and the air of the atmosphere combine to deliver great amount of moisture to the land in a system called the hydrological cycle. The hydrologic system would not exist if water could not change from the liquid form to the vapor form and again to the liquid form or to solid form such as ice.

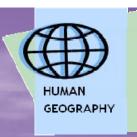




تبادل متنوع آب بر سطح زمین از طریق چرخه آب شناسی نشان داده می شود. آب اقیانوسها و هوای اتمسفر جمع گردیده تا مقدار زیادی بخار آب دهند. سیستمی بنام چرخه آب شناسی به زمین تحویل دهند. اگر آب نمی توانست از حالت مایع به بخار و دوباره به مایع یا جامد نظیر یخ تغییر شکل دهد ، سیستم آب شناسی و جود نمی داشت.







2. Precipitation from clouds can take different forms. It can fall as rain when in the water form or in a variety of forms when in *solid form*. The solid form has *three* kinds:

Sleet: is small ice pellet that are made when falling rain freezes as it passes through cold air

Snow: consist of ice crystals made directly by condensation of water vapor in clouds that are below freezing.

Hail: is round lump of ice





بارش از ابرها به اشکال مختلف نازل می گردد. بارش می تواند زمانی که بشکل مایع است بصورت باران و زمانی که به شکل مایع است بصورت باران و زمانی که به شکل جامد است به اشکال متنوع دیگر فرود آید. شکل جامد دارای سه نوع می باشد:

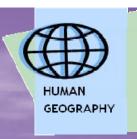
اسلیت (له برف) گلوله های کوچک یخ می باشد که از بارانی تشکیل شده است که زمانی که از میان هوای سرد عبور می کند، بخ می زند

برف شامل بلورهای یخی است که مستقیماً از تراکم بخار آب در ابرهای زیر نقطه انجماد تشکیل شده است.

تگرگ : گلوله های مدور یخ می باشد.







- 4.1.B. Comprehension

  Read the following statements and based on the passage *Hydrological Cycle* decide which are true (T) and which are false (F):
- Water can change to vapor
- 2. Evaporation takes place only in the very hot weather.
- 3. Hail is found in all kinds of clouds F





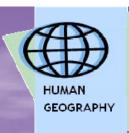


- 4.1.c. Answering detailed questions

  Choose the correct answer to fill in the blank:
- 1. Hydrological system exists because ........
- A. Water changes to solid form.
- Water can change to solid and vapor form
- C. Solid and vapor form of water can change to liquid form
- ✓ D. B & C



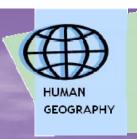




- 2. The most common precipitation is ........
- A. snow
- $\sqrt{B}$ . rain
  - C. hail
  - Ice pellet
  - rain is the ......form of precipitation
  - A. Solid
- √ B. Liquid
  - C. Gas
  - D. vapor







- 1.5. Grammatical points

  Looke at the following sentences:
- A.1. If water could not change from the liquid form to the vapor form and solid form and vice verse, the hydrologic system would not exist.
- A.2. The hydrologic system would not exist, If water could not change from the liquid form to the vapor form and solid form and vice verse.
- B.1. If I had studied hard, I would pass the exam.



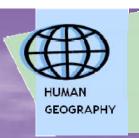




- B.2. I would pass the exam, if I had studied hard.
- C.1. If I were rich, I would buy a new car.
- C.2. I would buy a new car, if I were rich مثالهای C.1., B.1 و C.1., B.1 نشانگر نوع دوم جمله های شرطی می باشند که در آنها یک موقعیت فرضی بیان شده است. زمان این نوع جمله ها گذشته می باشد. این نوع از جمله های شرطی می توانند برای موقعیتی فرضی در زمان حال ، گذشته و آینده استفاده شوند.







- 1.5.A. Exercises
  - complete the following conditional sentences.
- 1. She would understand the answer, if she asked. (understand)
- 2. Browns would go to movies,...... they had time. (have)
- 3. If my parents were here , I would become ... very happy. (become)







2.5. Grammatical points

Compare the following words:

A. Examine (v)

Examination (n)

B. Explode (v)

Explosion (n)

C. Produce (v)

Production (n)

D. Recognize (v)

Recognition (n)

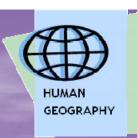




در مثالهای بالا شکل اسمی کلمات با اضافه کردن پسوندهای ation, sion, tion به فعل یا بخشی از فعل ساخته شده است. پسوندهای اسم ساز دیگری نیز وجود دارند.







- 2.5.A. Exercises
  - Use the proper noun from to complete the following sentences.
- 1. She did not according to my expectation... (expect)
- 2. To my...... my father sent me a cheach! . ( satisfy)
- To understand each other better, people need to have better <a href="mailto:second-red">seconder seconder secon
- 4. I was surprised to see the child's strong imagination....(imagine)



### Soil



#### General Aim

This lesson briefly describes the factors of soil formation and role each factor plays and teaches several common and key words in geography.

#### • هدف کلی:

این درس بطور مختصر عوامل مؤثر در تشکیل خاک را شرح می دهد. همچنین در این درس چند لغت عام و چند واژه کلیدی در مورد جغرافیا ارائه شده است.



### Soil



- Behavioral Objectives
   After study this lesson, you will be able to:
- 1. Do the comprehension exercises 5.1.B and 5.1.C.
- Define the meaning of the *common words* and do the exercises 5.2.
- 3. Define the meaning of the *key words* and do the exercises 5.3.





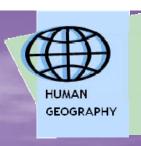
- 4. Learn different kinds of suffixes which make objectives. Then do exercises 5.4.A.
- Learn the indefinite pronouns other, another, the other, others. Then do exercises 5.5.A.
- 6. Translate the paragraph 5.6 into Persian.





- 5.1.A. Pre- reading Questions
- 1. What do you think is the most important factor in soil development? why?
- What is sedentary parent material?
- Do you think that human influence the process of soil formation in any way?
- 4. What is the importance of time in the development of a soil?





#### Common Words: Definition and exemplification

hemical (adj): made by chemistry

شيميايي

physical (adj): of material things, of body, of features of world

فيزيكي

process (n): connected series of actions. changes

عمل آوری ، طی مراحل تکامل

formation (n): developing, an act of forming or shaping

سازند، تشكيلات





#### Common Words: Definition and exemplification

develop (v): to form

توسعه يافتن ، ظهور

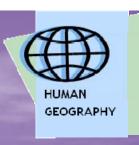
nutrient (adj): serving as or providing nourishment

موادمغذی ، از لحاظ غذایی مقوی

decompose (v): break down, separate into its parts
Organic (adj): related to living organism and their remains

نجزیه شدن (کردن) پوساندن آلی، مواد آلی





#### Common Words: Definition and exemplification

excess (n): too much , more than enough

decay (n): spoil, go bad, loose power and health

matter (n): material, element

permanent (n): constant . lasting

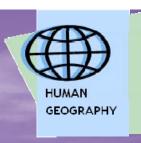
ماز اد ، زیادی

فساد

ماده

دائمی ، پایدار





#### Common Words: Definition and exemplification

Discharge (v): give or send out

breathe (v) take air into lungs and then send it out

pore (n): opening

mature (n): grown, developed

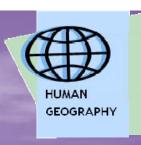
تخلیه کردن

تنفس کردن

روزنه، منفذ

بالغ، كامل





#### Common Words: Definition and exemplification

underlying (adj): being under or beneath something

bury (v): place underground, cover with earth

Steep (adj): rising or falling sharply

slope (n): position at an angle, area of rising or falling land

زيرين

دفن شدن

شیب دار ، شیب تند

سر اشیب





Common Words: Definition and exemplification

ربط دادن ، اعمال کردن relate to , refer to

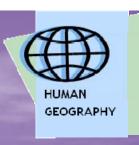
Opposite (adj ): vise- versa, on the contrary

biological (adj): related to the زیست شناسانه ، وابسته به science of life and living things

Indonesian (adj): of ndonesia

اندونزيايي





#### Common Words: Definition and exemplification

explode (v): burst with a loud

noise

irrigate (v): supply with water,

gave water

fertilize (v): made fertile and

productive

promote (v): increase, further, elevate

منفجرشدن

ابياري

بارور کردن ، کود دادن

ترفيع دادن ، بالا بردن





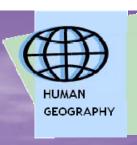
Key Words: Definition and exemplification

Rock (n): solid stony part of the صخره ، سنگ بزرگ earth, large stone

Weather (v): to be exposed to the معرض هوا قرار weather, become worn by weather

pedology (n): the science dealing خاک شناسی with soil





#### Key Words: Definition and exemplification

پوشش گیاهی ، vegetation (n): plants covering a پوشش نباتی پوشش نباتی

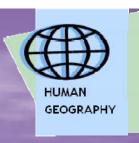
mineral (n): substance got from the earth by mining

bedrock (n): the solid underlying surface materials

Parent material (n): basic elements

عناصر بنبادي





Key Words: Definition and exemplification

Granite (n): hard and usually gray stone used for building

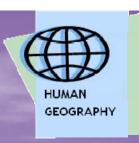
گرانیت

sedimentary (adj): containing sediment, formed by or form deposits of sediment Sedentary Parent material (n): permanently sitting parent material

رسوبي

عناصر بنیادی سو ہے





#### **Key Words: Definition and exemplification**

regime (n): set of rules for diet, exercise and etc.

volcano (n): hill or mountain with opening through which gases, lava, ashes

lava (n): fluid rock coming گدازه ، مواد مذاب from volcano

رژیم

آتش فشان





#### 5.3. Exercises

Fill in the blanks with the correct form of one of the following words.

Rock, weathered, pedology, vegetation, mineral, bedrock, regime, volcano

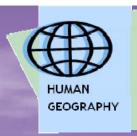
- In the desert there is no sign of vegetation
- 2. Weathered mineral usually are removed by erosion
- 3. Mineral springs usually have salt and iron.





- Translate the following paragraphs
- 1. The study of soils is the science of pedology which is taken from a Greek word meaning ground. Pedology studies different layers of soil. The formation of a mature soil depends on a number of conditions. The mineral in the underlying bedrock strongly influence the kind of soil that will develop. These mineral are called the parent material of the soil. There are two kind of parent material .The first kind is the permanent bedrock such as an area of granite or an area of eroded sedimentary rock. Weathering of these rocks created a soil that contains elements taken from them, so that we may describe the parent material as sedentary.





می کیر د. بدولوژ را بررسی می کند تشکیل یک خاک بالغ و کامل به شر *چندی بستگی دار د*. مو اد معدنی در سنگ بستر زیرین در ابنده تکامل خواهد یافت ر این مواد معدنی مواد معدنی بنبادی خاک شوند. دو نوع مواد بنیا*دی* و جود دار د. نوع اول سنگ بستر دائمی مانند منطقه ای از گر انبت با منطقه ر سوبی فر سایش بافته می باشد. هو از دگی این سنگها خاکی که عناصر گرفته شده از بطوری که ممکن است ما مواد بنیادی مزبور را بعنوان رسوبی (ته نشین شده ) شرح دهیم.





2. Soil also requires time for development but soils in colder environments need more time than soils in hot and humid areas. After an Indonesian volcano exploded in 1883 and huge amounts of lava covered the land, the soil took only 45 years to develop on the new rock. This soil formed under equatorial conditions. However the full development of soil in higher latitudes take thousands of years. The other factor which should be mentioned in soil development is the human factor. Through agriculture, soil irrigated and fertilized and therefore. Many modifications occur. Today , theses modifications affect the soil development in major area of the world.





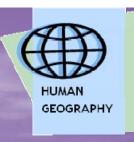
خاکها در محبط های سردتر نسبت به محبطهای به زمان بیشتری نیاز دارند پس از اینکه سال ۱۸۸۳ منفجر شد و مواد سطح زمین را بوشاند، خاک فقط در ۴۵ سال بر روء سنگهای جدید تکامل بافت این خاک تحت شر ابط تكامل يافته است. بهر حال تكامل كامل خاكها در عرضه بالاتر هزاران سال طول می کشد. عامل دیگری که تکامل خاک می بایست ذکر گر دد ف عامل انسان است. ط کشاور زی خاک ابیاری و کود دھی می گردد و بنابر تغییراتی رخ می دهد. آمروزه اینگونه تغییرات تکامل خاک ر ا در مناطق عمدہ جہان مناثر می سازند





- 5.1.B. Comprehension
  - Read the following statements and based on the passage *soil* decide which are true (T) and which are false (F):
- Soil forms much faster in humid and warm areas
- Pedology is the science of nutrients of the earth.
- Agricultural influences the soil formation process.





- 5.1.c. Answering detailed questions
  Choose the correct answer to fill in the blank:
- Soil breathes ......
- A. By its surface.
- B. By its material
- C. Through its pores
  - D. Through its water





- 2. pedology is the science of .......
- A. Children and their behavior
- B. Soil formation
- C. Parent material
- √ D. Layers of soil
  - The only factor which does not play a role in soil formation process is ......
  - A. time
  - B. Parent material
  - C. heat
- ✓ D. cold





5.4. Grammatical points

Compare the following set of words:

A. Organism (n)

B. Chemistry (n)

C. Physics (n)

D. Sedimentation (n)

E. Care (v)

F. Iran (n)

**G**. Danger (n)

H. Excess (n)

. Honor (v)

J. Gold (n)

K. Friend (n)

L. Wind (n)

Organic (adj)

Chemical (adj)

Physical (adj)

Sedimentary(adj)

Careful (adj)

Iranian (adj)

Dangerous(adj)

Excessive (adj)

Honorable (adj)

Golden (adj)

Friendly (adj)

Windy (adj)

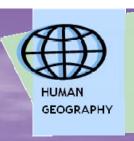






همانطور که در مثالهای بالا می بینیم، با اضافه کردی پسوندهایی مانند cal, al, ary, ful, ian, ous پسوندهایی مانند y, ly, ive, able, en توان صفت ساخت. این پسوندها به فعل و اسم و یا بخشی از آنها اضافه می شود. این پسوندها را معمولاً پسوندهای صفت ساز می خوانند.





- 5.4.A. Exercises
  - Use the mention adjective makers to complete the following sentences.
- 1. Air pollution is very harmful To people's health. (harm)
- Yesterday the weather was stormy. (storm)
- 3. The students of the class liked the educational goals of the teacher. (education)





- 2.5. Grammatical points

  Compare the following sentences:
- A. Another factor for soil formation is temperature.
- There are other ways of doing this exercise
- C. Some like milk chocolate, others like plain chocolate.
- D. He held a book in one hand and a pencil in the other.





چنانچه در مثالهای بالا دیده می شود ، ضمایر غیر مشخص another , the other , others در موارد مختلفی بکار برده می شوند.

- " the other " به معنای "یکی از دو تا " است.
  - " other" در معنای " دیگر" استفاده می شود.
- " others "در معنای " بقیه ، دیگران" استفاده می شود.
  - " another "در معنای " یکی دیگر" استفاده می شود.



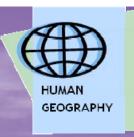


#### 5.5.A. Exercises

Use another, the other, others, other to complete the following sentences.

- 1. We got home by 6 o'clock, but the others did not come back until 9 o'clock.
- 2. I think geography is more interesting than other..... fields.
- 3. One if the climatic conditions for soil formation is weather , The other is temperature.
- 4. You have already given me 5 books but I need another... one





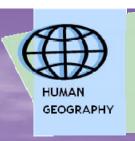
General Aim

This lesson briefly discusses a few facts about the Earth and other planets in our solar system and teaches several common and key words in geography.

• هدف کلی:

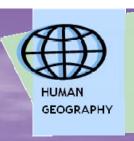
این درس بطور مختصر نکاتی را در مورد زمین و سایر سیارات منظومه شمسی بیان می کند. همچنین در این درس چند لغت عام و چند واژه کلیدی در مورد جغرافیا ارائه شده است.





- Behavioral Objectives
   After study this lesson, you will be able to:
- 1. Do the comprehension exercises 6.1.B and 5.1.C.
- Define the meaning of the *common words* and do the exercises 6.2.
- 3. Define the meaning of the *key words* and do the exercises 6.3.





- 4. Learn to use so ... that and such... that patterns in English sentences. Then do exercises 6.4.A.
- Learn to use *the same as* and *different from* patterns in English sentences.

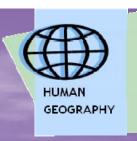
  Then do exercises 6.5.A.
- 6. Translate the paragraph 6.6 into Persian.





- 6.1.A. Pre- reading Questions
- 1. Among the planets in our solar system, which one do you think is more similar to our Earth? Why?
- What is the difference of four giant planets with the Earth?
- 3. Why do you think dinosaurs do not exist today?





Common Words: Definition and exemplification

Persist (v): continue

ادامه دادن

Casual (adj): unplanned, showing little concern, happening by chance

سطحي ، اتفاقي

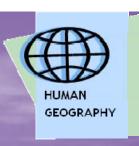
glance (n): look, quick look

نگاه گذر ا

relatively (adv): in proportion

نستأ





Common Words: Definition and exemplification

develop (v): to form

توسعه يافتن ، ظهور

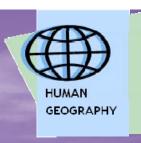
nutrient (adj): serving as or providing nourishment

موادمغذی ، از لحاظ غذایی مقوی

decompose (v): break down, separate into its parts
Organic (adj): related to living organism and their remains

تجزیه شدن (کردن) پوساندن آلی ، مواد آلی





Common Words: Definition and exemplification

pap (n): unfilled space, distance

شكاف ، فاصله

Hostile (adj): unfriendly, inhospitable

متخاصم ، كينه توزانه

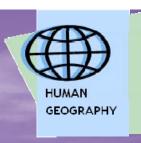
cap (n): head - covering

کلاهک ، کلاه

evidence (n): proof, sign anything that gives reason for believing something

مدرک ، گواه





Common Words: Definition and exemplification

ndicate (v): point out

اشاره کردن

collision (n) meet and strike, come together violently

تصادف ، بر خور د

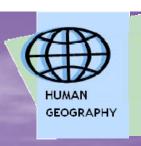
extinction (n): being no longer in existence

انقراض ، انهدام

impact (n): collision, striking on or against something

تصادم ، اصابت





Common Words: Definition and exemplification

swarm (n): colony , large number of some thing or people

proof (n): evidence

foreseeable (adj): expected, see beforehand or in advance

alarm (n): fright, fear

score (n): in consideration of

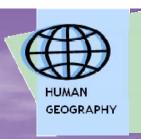
گروه

مدرک ، سند

قابل بیش بینی

دلهره ، هراس علت ، دلیل





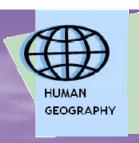
Key Words: Definition and exemplification

Solar system (n): the Sun and the ، منظومه شمسی group of heavenly bodies that are منظومه خورشیدی held by its attraction and revolve around it

Solid planets (n): one of the four planets of Mercury, Venus, the Earth and Mars which are not made of gas.

سیارات سفلی





Key Words: Definition and exemplification

Mercury (n): one of the solid planets

تیر ، عطارد

Venus (n): one of the solid planets

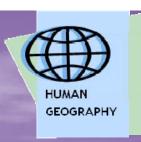
ناهید ، ز هر ه

The Earth (n): one of the solid (زمین (کره زمین ) planets which we live on

Mars (n): one of the solid planets

مریخ ، بهرام





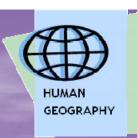
Key Words: Definition and exemplification

asteroid (n): one of thousands of small سیاره کوچک planets between Mars and Jupiter

Giant planets (n): one of the five planets سیارات عظیم of Jupiter , Saturn , Uranus , Neptune , Pluto

Jupiter (n): one of the giant مشتری ، برجیس planets





Key Words: Definition and exemplification

Saturn (n): one of the giant

planets.

Uranus (n): one of the giant planets.

Neptune (n): one of the giant planets.

كيوان ، زحل

اورانوس

نپتون





Key Words: Definition and exemplification

Pluto (n): one of the giant planets.

بلوتون

Massive (n): large, heavy and solid

حجيد

Atmospheric pressure (n): the pressure of atmosphere near the ground

فشار جوي

revolution (n): revolving or turning گردش، دوران around





Key Words: Definition and exemplification

dameter (n): measuring across any geometrical figure or body

قطر

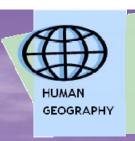
cratered (adj): full of holes in the ground made by explosion of a bomb or etc.

حفره دار

orbit (n): the path followed by one body in its revolution around another, as by the Earth around the sun

مدار





#### 6.3. Exercises

Fill in the blanks with the correct form of one of the following words.

- Solar system, solid planets, giant planets, the Earth, Mars, orbit, diameter, Pluto, asteroid
- Pluto is a giant planet is less massive than the Moon
- 2. The surface of the giant planet Are made of gas.
- 3. Beyond the orbit of the Mars, there are many....asteroid

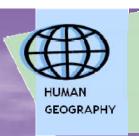




- Translate the following paragraphs
- 1. The Earth is our home in space. Ancient civilizations believed it to be flat with other lanets revolving around it once a day. Even when the Greek showed that the Earth was globe, it was still thought to be the most important body in the universe. This idea persisted for a surprisingly long time. However, in the seventeenth century it was proved that the Earth is an ordinary planet which moves round the sun. A causal glance at a plan of solar system shows that it is divided into two parts.







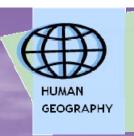
ز مین خانه ما در فضا است <sub>ب</sub> تمدنهای گذشته ه اندیشیدند که زمین مسطح است و سیارات دیگر هر رو به دور آن می چرخند حتی زمانی که یونانیان نشا دادند که زمین کروی است، هنوز تصور می شد مهمتریا جرم در جهان است این عقیده برای یك دوره طولانه باور نکردنی یا برجا بود. در هر حال در قرن هفدهم ثابت شد که زمین یك سیاره معمولی است که به دور خورشید می چرخد. یك نگاه گذرا به طرح منظومه شمسی نشان می دهد که منظومه شمسی به دوقسمت تقسیم شده است





Of the solid planets, Mercury is the smallest, with a diameter of 4840 km. It has cratered surface, superficially very like that of The Moon and it basically has no atmosphere. Venus is very nearly as large as the Earth and has an almost circular orbit at a distance of 108000 km from the sun. However Venus and the Earth are not similar at all. Venus has a dense atmosphere made up chiefly of carbon dioxide, the ground pressure is at least 90 times that of the Earth so air at sea level, and the temperature is 500 C. The clouds contains large amount of euphoric acid and in very way Venus appears to be very hostile.





از بین سیارات سفلی تیر با قطر ۸۶۰ کیلومتر کوچکترین باشد. این سیاره دارای سطح حفره دار ظاهرأ شبیه به ماه می باشد و اساساً اتمسفری ندارد. زهره با تقریب بالا به بزر**ا** زمین می باشد و دارای یك مدار دایره ای در فاصله ۸۰۰۰ کیلومتری از خورشید می باشد<mark>.</mark> در هر حال زهره و زمین ابدا شبیه بهم نمی باشند. زهره دارای اتمسفری متراکم که عمدتاً از دي اكسيد كربن تشكيل شده مي باشد. فشار زمين حداقل ٩٠ بر ابر فشار هوای زمین در سطح دریا و دما ۰۰۰ درجه سانتیگراد می باشد ابرها شامل مقادیر زیادی از اسید سولفوریك می باشند و در هر حال زهره بسیار متخاصم جلوه می کند.





Yet the Earth will not last for ever. Eventually the Sun will change its structure, and for a time will send out 100 times as much radiation as it dose now. This will certainly mean the end of life on Earth, if not of the Earth itself. However, since the changes in the Sun will not occur for at least 4000 million years, and probably longer, there is no immediate cause for alarm on this score.





با این وجود زمین برای همیشه نمی ماند. سرانجام خورشید ساختارش را تغییر خواهد داد و ۱۰۰ برابر بیشتر از امروز تشعشع خواهد کرد. البته این به معنی یایان زندگی در زمین است گرچه خود زمین نابود نمی گردد. در هر حال چنین تغییراتی در خورشید برای حداقل ٤ ميليارد سال و يا احتمالاً بيشتر رخ نمي دهد، بنابراین علت خاصی برای ترس در این مورد وجود ندار د.





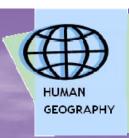
- 6.1.B. Comprehension
- Read the following statements and based on the passage *The Earth and solar system* decide which are true (T) and which are false (F):
- The Earth will not last for ever because it will be explode by sun.
  F
- 2. The clouds in Venus contain sulphuric acid.
- 3. Pluto is more massive than the Moon.





- 6.1.c. Answering detailed questions
- Choose the correct answer to fill in the blank:
- 1. Among the solid planets, ...... is the smallest.
- A. the Earth
- B. Pluto
- C. Mercury
  - D. Mars





- 2. Venus is a ..... planet
- A. giant
- B. minor
- √ C. hostile
  - D. habitable
  - The diameter of Mars is ......
  - A. 687 km
  - **B**. 4840 km
- / C. 6760 km
  - D. Nine of the above





- 6.4. Grammatical points
- Look at the following examples:
- A.1. An asteroid impact led to a climatic change *so* violent *that* it caused the extinction of dinosaurs.
- A.2. He left *so* quickly *that* we did not have time to say goodbye.
- A.3. Peter has so little money *that* he can not buy the book.
- B. It was such a stormy day snow covered the whole city.





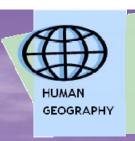
- در مثالهاي بالا مي بينيم كه ساختار هاي , so....that و در مثالهاي بالا مي بينيم كه ساختار هاي , such ....that در بندهايي استفاده مي شوند كه ميزان مي كنند نتيجه موقعيتي را بيان مي كنند
- همانطور که در مثال ِ A.2 مي بينيم در ميان دو قسمت ساختار على عمود اگر چه از قيد نيز استفاده مي گردد. مثال A.3 همچنين نشان مي دهد که اين ساختار با قيود مقدار many, much, little و few نيز استفاده مي شود.
- ساختار such ....that در مثال B به كار رفته است. این ساختار تنها باعبارات اسمي بكار مي رود .





- 6.4.A. Exercises
  - Use so....that and such....that and words in parentheses to complete the following sentences .
- 1. John told such A.funny.story that Mary wanted to hear it again. (story)
- 2. Mercedes is such.... an expensive car that Jack can't buy it .
- 3. Sima spoke some rapidly material couldn't understand her

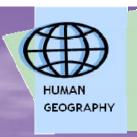




- 6.5. Grammatical points
- Compare the following examples:
- A.1. The tilt of Mars's axis and Earth's are almost the same.
- A.2. The tilt of Mars's axis is almost *the same as* the Earth's.
- B.1.Mercury's diameter is 4840 km Mars's diameter is 6760 km.
- B.2. Mercury 's diameter is different from Mars's.

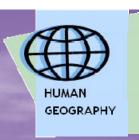






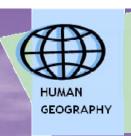
چنانچه در مثالهای B.2 و A.2 مي بينيم ساختارهاي A.2 و the same as براي مقايسه دو انسان ، شيئ، مكان ، حيوان و غيره استفاده مي شوند. The same as ميانگر شباهت و different from نشان دهنده تفاوت هستند.





- 6.5.A. Exercises
- Use the same as and different from patterns to do this exercise
- 1. Mary 's major is geography and Batty 's major is geography too.
- Mary 's major is the same as the Batty 's.
- My cat is different from lack 's
- 3. This radio is small but that one is large
- This radio is different from that one





General Aim

This lesson introduces the science of geomorphology and reviews different layers of the interior Earth and teaches several common and key words in geography and few grammatical points.

هدف کلی:

این درس علم پیکرشناسی زمین را معرفی کرده و لایه های مختلف درون زمین را مرور می کند. همچنین در این درس چند لغت عام و چند واژه کلیدی درمورد جغرافیا و چند نکته دستوری ارائه شده است.





- Behavioral Objectives
   After study this lesson, you will be able to:
- 1. Do the comprehension exercises 7.1.B and 7.1.C.
- Define the meaning of the *common words* and do the exercises 7.2.
- 3. Define the meaning of the *key words* and do the exercises 7.3.





- 4. Learn the meaning and use of some of adverbs of frequency in English sentences. Then do exercises 7.4.A.
- Learn where and how to use *comma* in English sentences. Then do exercises 7.5.A.
- 6. Translate the paragraph 7.6 into Persian.





- 7.1.A. Pre- reading Questions
- 1. Do you know what geomorphology deals with?
- 2. Do you know how many layers are beneath the surface of the earth?
- 3. how do you think we can learn about the inner side (part) of the earth?





Common Words: Definition and exemplification

tream (n): river, brook

جويبار، نهر

evolution (n): developing, growth

تکامل ، رشد

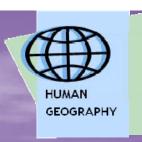
penetrate (v): make away through or into

نفوذ كردن

fissure (n): a narrow opening or crack of considerable length and depth

درز





Common Words: Definition and exemplification

shake (v): vibrate, tremble

fracture (v): break

attack (v): strike, assault

relevant (adj): appropriate, having relation to something, connected with what is being discussed

تكان دادن

شکستگی

حمله کر دن

مربوط





Common Words: Definition and exemplification

not protected against attack
Mine shaft (adj): long narrow
empty space (usually vertical) in
a mine

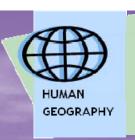
آسيب يذير

میله چاه که به داخل معدن و صل می شود

radius (n): a straight line from the center of a circle or sphere to any point on the circumference

شعاع





Common Words: Definition and exemplification

eruption (n): explosion, blowing up

warp (v) deform, change the

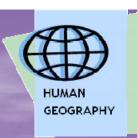
natural shape

bend (v): cause of force something to be out a straight line or surface فور ان

تاب برداشتن

خم کردن





Key Words: Definition and exemplification

Geomorphology (n): the study of evolution of the natural landscapes of the earth

ژئومورفولوژی ، پیکرشناسی

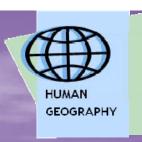
Ice sheet (n): any large continuous areas of land - ice

Coastal landscapes (n): lands beside seas and ocean

صفحه یخی

چشم انداز های ساحلی





Key Words: Definition and exemplification

Sand duns (n): a low hill of piled توده های ماسه ای sand mainly moved by wind, occurring in deserts.

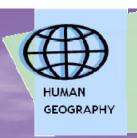
geology (n): the science of the history, compositing, structure and processes of the earth

geophysics (n): the study of physics of the earth's crust and its interior

زمین شناسی

**ژئوفیزیک** 





Key Words: Definition and exemplification

crust (n): the upper layer of the earth

پوسته

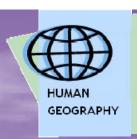
earthquake (n): a rapid movement and adjustment of land within the rocks in the earth's crust

زلزله

glacier (n): a mass of ice of limited width moving outward from where is located

يخجال





Key Words: Definition and exemplification

Inner core (n): the center of the interior earth

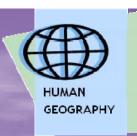
هسته داخلی

Outer core (n): the second layer of the interior earth after the inner core هسته خار کی

mantel (n): the layer of the inner earth which is between the outer core and the crust

لایه واقعه بین پوسته و هسته کره زمین، گوشته





Key Words: Definition and exemplification

discontinuity (n): a sudden change of in the structure of the earth at great depths

ناپیوستگی

Convection cell (n): the upward movement of the heated material (air) and the downward movement of the cooler material (air)

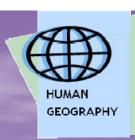
صعود هوای داغ و نزول هوای سرد، سلول همگرایی





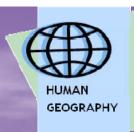
- 7.3. Exercises
  - Fill in the blanks with the correct form of one of the following words.
- geomorphology, ice sheet, inner core, convection cell, glacier, sand dune
- To know about the surface of the earth, one of the things we should study about oglacier
- 2. geomorphology is the study of the evolution of natural landscapes.
- 3. The direction of the wind effect the shape of sand dune.....





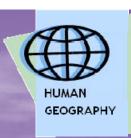
- Translate the following paragraphs
- 1. Today research on slopes, streams and creation of landscapes comes under the topic of geomorphology, which is a special field of physical geography. The term geomorphology is made of three words of geo (earth), morph (form) and logy (science). Geomorphology deals with the physical earth, the surface and the forces that shape and build it. Geomorphologies study subject such as the role of ice sheets in the creation of landscape in the upper Midwest, the functions of waves in the formation of coastal landscapes, and relationships between wind direction and the shape of sand dunes. Therefore we can call geomorphology the study of the evolution of the natural landscape





امروزه تحقیق در مورد دامنه ها ، رودخانه ها و خلق چشا اندازها تحت عنوان ژئومورفولوژي که شاخه ویژه اي جغرافیای طبیعی است قرار می گیرد . واژه ژئومورفولوژی سه لغت زمین ، شکل و علم تشکیل شده است. ژئومورفولوژ فیزیك زمین ، سطح و نیروهایی كه آنرا شكل داده و می سازند را بررسي مي كند : ژئومورفولوژيست ها موضوعاتي نظير نقش صفحات یخی در ایجاد چشم انداز ها در عرضهای بالا ، عملکرد امواج در تشکیل چشم انداز های ساحلی و ارتباط میان جهت باد و شکل تیه های ماسه ای را بررسی می کنند. بنابر این ما می توانیم ژئومورفولوژی را مطالعه تحول چشم انداز طبیعی بنامیم.





To understand the crust we need to know what in turn, supports it from below. In fact, the nterior structure of the earth is quite relevant to geomorphology. Beneath the curst, temperatures and pressures rise to such levels that the rock material becomes sticky (having quality like glue). Chemical change generates the heat that keeps rocks in such sticky or even molten state, and much of the earth's interior is continuously in motion. Resting on this unstable interior, the crust averages from about 6 to about 25 miles )10 to 40 km) in thickness and in thus vulnerable to failure and fracturing





جهت درك پوسته ، در جاي خود لازم است بدانيم چه چيزو آنرا از زیر نگه می دارد. در حقیقت ساختار داخلی زمین کاما وابسته به ژئومورفولوژی است. زیر پوسته درجه حرارت ها فشار ها به حدي بالا مي رود كه مواد سنگي به حالت جسبناك در می آیند ( دارای خاصیتی مانند چسب). تغییر شیمیایی گرما یی ایجاد می کند که سنگها را در حالت چسبناك یا حتی مذاب نگه می دارد، و بیشتر درون زمین پیوسته در حال حرکت می باشد. با تکیه بر این درون نایایدار ، ضخامت یوسته بطور متوسط از حدود ٦ تا ٢٥ مايل (١٠ تا ٤٠ كيلومتر) بوده و جهت شكستگي و خرد شدگی آسیب پذیر می باشد.





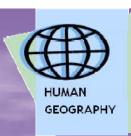
Whatever the outcome of this research on the mantle will be , it will contribute much to our understanding of behavior and appearance of the crust, both geologically and geomorphologically. It is already clear that interior forces change the upper surface of the crust: volcanic eruptions and earthquakes prove that dramatically. However, the slow, continuous movement of the material in the mantle causes more subtle changes in the crust, slowly pushing, pulling, warping and even bending it.





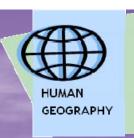
هر قدر نتیجه تحقیق در مورد گوشته ادامه باید، در درك ما از رفتار و ظاهر پوسته هم از نظر زمین شناسی و هم از نظر زمین ریخت شناسی ، بیشتر سهیه خواهد بود. اکنون روشن است که نیروهای داخلی مانند آتشفشانها ، فور انها و زمین لرزه ها که بطور بر جسته ای اثبات گردیده اند، سطح فوقانی پوسته را تغییر می دهند. در هر حال حرکت آرام و مداوم مواد در گوشته سبب تغییرات بسیار ظریف در پوسته می گردد. بنحوی که آنرا به آرامی هل می دهد، می کشاند ، می پیچاند و حتی خم می کند.





- 7.1.B. Comprehension
- Read the following statements and based on the passage *Geomorphology and the Interior Earth* decide which are true (T) and which are false (F):
- The mantle is made of only hot liquid.
- Volcanic eruptions change the surface of the earth.
- 3. Beneath the crust of the earth , the temperature is very high





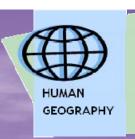
- 7.1.c. Answering detailed questions
- Choose the correct answer to fill in the blank:
- 1. The surface of the earth is called the
- A. Outer core
- √B. crust
  - C. mantel
  - D. landscape





- 2. The mantel of the earth contains......
- A. Solid rocks
- B. Liquid matter
- C. Gases
- D. A & B
- the crust of the earth is about ......
- A. 2200 km
- **B.** 420 to 440 miles
- C. 6 to 25 miles
  - D. 2 to 3 miles





- 7.4. Grammatical points
- Compare the following sentences:
- A.1. She *always* studies hard.
- B.1. She *often* studies hard.
- C.1. She *almost* studies hard.
- D.1. She *never* studies hard.
- A.2. Jack was always the best football player in his team.
- B.2. Jack was often the best football player in his team.
- C.2. Jack was *almost* the best football player in his team.
- D.2. Jack was *never* the best football player in his team.







• در مثالهای بالاً قیدهای تکرار often, , always almost, و never در میان جمله ها استفاده شده اند اگر این قیود تکر ار با افعال to be و افعال کمکی استفاده شوند، چنانچه در مثال هاي 2 مي بينيم ، معمولاً بعد از فعل آورده می شوند اما اگر این قیدها با افعال دیگر استفاده شوند، چنانچه در مثال هاي 1 مي بينيم ، معمولاً بین فعل و فاعل آورده می شوند. در جمله هایی که دارای افعال تركيبي هستند، قيدهاي تكرار معمولاً بين دو قسمت فعل آورده مي شوند. برخي از قيدهاي تكرار و معناي آنها عبار تند از:





ways

usually

often

sometimes

هميشه

معمو لأ

اغلب

بعضی او قات

hardly

never

already

قبلأ

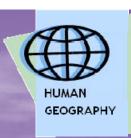
تقریباً، نزدیک به almost





- 7.4.A. Exercises
- Use adverbs of frequency and verb in parentheses to complete the following sentences.
- Since I was ten, in my family, we usually have our dinner at 7.00 p.m. (have)
- 2. The earth .is.almost.a complete sphere .
- 3. She.already.knows what I think about her.

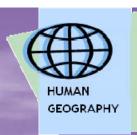




- 7.5. Grammatical points

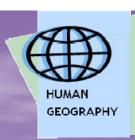
  Look at the following sentences:
- A. Today research on slopes, streams and creation of landscapes is done by the science of geomorphology.
- B. Overall the mantle is about 1800 miles thick.
- C. To be able to study the surface, landscapes of the earth, how much do we need to know about the underlying geology of the earth.
- D. If I were elected as principal, I would raise teacher's salary.





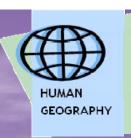
علامت ویرگول (،) در زبان انگلیسی در موارد خاصی بکار می رود. در مثال A می بینیم که چند علامت ویرگول برای نام بردن از تعدادي عنوان و مطلب به كار رفته است در مثال A همچنین می بینیم که علامت و پر گول قبل از حرف ربط and نیز استفاده شده است. در مثال B علامت و پر گول بعد از قید |overa| استفاده شده است. در مثال ا کو علامت ویرگول برای جدا کردن توضیح داده شده در C مورد کلمه surface آورده شده است. و در مثال D از علامت ویرگول برای جدا کردن دو قسمت جمله استفاده شده است





- 7.5.A. Exercises
- punctuate the following sentences only where commas are needed.
- 1. Everything being ready we started to eat. Everything being ready, we started to eat.
- 2. To learn geomorphology one needs to study the formation of natural landscapes of the earth
- To learn geomorphology, one needs to study the formation of natural landscapes of the earth
- 3. Mary the teacher is a nice person Mary, the teacher, is a nice person





#### General Aim

This lesson briefly touches upon the processes which create plains and mountains. Few fact about ocean floors are mentioned too. This lesson teaches several common and key words in geography and few grammatical points.

#### • هدف کلی:

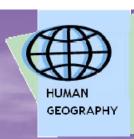
این درس بطور مختصر فرآیندهایی که دشتها و کوهها را ایجاد می کنند مورد بررسی قرار می دهد . همچنین مطالبی در مورد کف اقیانوسها ذکر می گردد . همچنین در این درس چند لغت عام و چند و ازه کلیدی در مورد جغرافیا و چند نکته دستوری ارائه شده است.





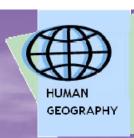
- Behavioral Objectives
   After study this lesson, you will be able to:
- 1. Do the comprehension exercises 8.1.B and 8.1.C.
- Define the meaning of the *common words* and do the exercises 8.2.
- 3. Define the meaning of the *key words* and do the exercises 8.3.





- 4. Learn the formation of passive sentences and their different with active sentences in English. Then do exercises 8.4.A
- 5. Learn how to make comparative and superlative adjectives in English. Then do exercises 8.5.A.
- 6. *Translate* the paragraph 8.6 into Persian.





- 8.1.A. Pre- reading Questions
- 1. Do you know what shields are?
- 2. Do you know where Laramide orogeny happened?
- how do you know what tectonic plates are?





Common Words: Definition and exemplification

component (n): element, member

جزء ، بخش

Represent (v): picture, show

نشان دادن ، نمایاندن

Core (n): central of most important part of anything

هسته ، مرکز

apparently (adj): obviously, seemingly

ظاهرأ





Common Words: Definition and exemplification

enderlie (v) ( underlay , underlain): در زیر قرار گرفتن to lie or be situated under crush (v): smash , to press so that there is breaking override (v): to overlap , to press over.

flexure (n): which has the capacity of being flexed, bent





Common Words: Definition and exemplification

margin (n): border, edge

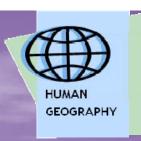
حاشیه ، کنار ه

reserve (n): supply

ذخير ه

Drop off (v): decline, become ، نزول کردن very steep marine (adj): of or relating to sea





Common Words: Definition and exemplification

مرکز ثقل قاره ها shield (n): core of the continents , a مرکز ثقل قاره ها igid mass of pre – Cambrian rocks ، سپر

Orogenic belt (n) :zone of a present or former mountain range made during orogeny

orogeny (n): times of crushing and breaking thick rock layers of the crust

1:4 6

کمر بند کو هز ایی





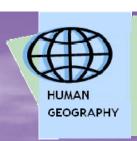
Key Words: Definition and exemplification

Precambrian (n): all the geological time and the associated rocks before the beginning of the Cambrian period of the Paleozoic era, before about 600 million years ago پرکامبرین

Plain (n): a vast comparatively flat area , though sometimes gently rolling , with no prominent depression or elevation

دشت





Key Words: Definition and exemplification

plateau (n): an upland surface which is bounded by one or more steep slopes

فلات

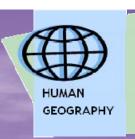
asthenospher (n): the comparatively soft , plastic layer of the earth's upper mantle on which the plates of grade lithosphere

قسمت بالای پوسته ( قسمت بالای لایه مذاب)

Tectonic plate (n): parts of the earth's lithosphere that move relative to each other

صفحه تكتونيك





Key Words: Definition and exemplification

Oceanic basin (n): a large – scale حوضه اقیانوسی depression on the earth's surface, filled by an ocean

Continental shelf (n): the gently sloping margins of a continent which are submerge beneath the sea.

فلات قاره





Key Words: Definition and exemplification

قاره (alic continent (n): continents made of Si + Al sial which is the surface granitic rocks of the continental crust, composed largely of Silica and Alumina North America, Africa , and Australia are sialic continents Continental slope (n): the significant slope from the edge of continental shelf to the deep- sea or abyssal plain





Key Words: Definition and exemplification

قراز قاره ای continental rise (n): the slightly tilted عام zone at the foot of the continental slope, where the ocean floor drops off gently toward the abyssal plain

Abyssal plain (n): extensive oceanfloor surfaces which are located at depths of as much as 15000 to 2000 ft. (4500-6000 m) below sea level دشت مغاکی (دشت عمیق زیر آبی)





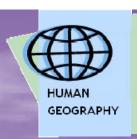
#### 8.3. Exercises

Fill in the blanks with the correct form of one of the following words.

- Shield, orogenic belts, plain, sialic continents, tectonic plates, orogeny, continental shelf
- 1. A zone of mountains build during an orogeny is called ...orogenic belt
- 2. Continental shelves are the continuation of Sialic continents
- 3. The period in which rocks are crushed and therefore, mountains are formed is called

·orogeny





- Translate the following paragraphs
- The earth's land masses consist of two basic geological components: shield and orogenic belts. hese components are represented by two kinds of landscapes: plain and mountain belts. The shields form the cores of continents. These vast shields are made of very old rocks. On the time scale they are formed in the Precambrian and thus are older than 600 million years, but most are well over 1 billion years old and some shield rocks are thought to be between 3 and 4 billion years old. These rocks are mostly of granitic type, though some have been changed by following volcanic activity.





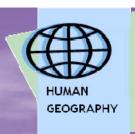
توده خشکی زمین دو جزء مهم زمین شناسی می گیرند :سیرها و کمربندهای کوهزایی اجزاء مزبور بوسیله دو چشم انداز دشتها و کوهستان ها جلوه می کنند سیرها هسته قاره ها را تشکیل می دهند سیرهای عظی از سنگهای بسیار قدیمی تشکیل شده اند از نظر مقیاس زمانی آنها در پرکامبرین و بنابراین قدیم تر از ۶۰۰ ملیون سال تشکیل شده اند، اما بیشتر آنها بیش از بك میلیارد سال عمر دارند و تصور می گردد سنگهای برخی سیرها بین ۳ تا ۴ میلیارد سال سن داشته باشند . این سُنگها غالباً از گر انبیت تشکیل شده اند آگر چه برخی از آنها در بی فعالیتهای آتشفشانی بعدی تغییر یافته اند





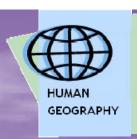
2. For example, on the geologic time scale, where the formation of the Rocky Mountain in the U.S. has happened, the Laramide orogeny occurred. Just why orogenies have taken place throughout earth history during certain period of strong activity and were followed by times of comparative inactivity is not clear. However it is now known that such as mountain building takes place when grate, rigid pieces of the earth's crust are moved by convection currents in the asthenosphere and collide. These rigid parts, called plates move slowly but not harmoniously. Also known as tectonic plates, they sometimes carry whole continents or , when in a ocean basin, they are the size of continents.





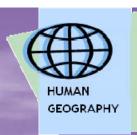
ر اکی در ایالات متحده امریکا اتفاق افتاده است ، کو بوقوع پیوست ابنکه چرا کوهزایی ها در سراسر تا در خلال دوره های معینی از فعالیتهای شدید رخ داده و با ه های نسبتاً بدون فعالیت دنبال شده اند واضح نمی باشد در م اکنون دانسته شده است که زمانی که قطعات بزر یوسته زمین بوسیله جریانات همگر آیی در قسمت بالای بوسته ُحرکت کرده و بهم برخورد کرده اند چنین ساختمان کو هستانی خ داده است این قسمتهای سخت صفحات نامیده می شوند که به رامی اما بطور ناموزون حرکت می کنند .همچنین دانسته شده است که صفحات تکتونیکی برخی مواقع تمام یك فاره را حمل می كنند و يا هنگامي كه در حوضه اقيانوسي هستند به اندازه قاره ها می باشند





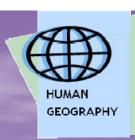
3. The continental shelves vary greatly in width. Off the shores of western south America, for example, the sea floor drops off within a few miles f the land, and there is almost no continental shelf at all. Off the shores of eastern north America western Europe and southeast Asia, the shelf is hundred of miles wide. The edge of the shelf comes at a depth of 400 to 600 ft. ( 120 to 180 m), sometimes slightly deeper, where the sea floor drops off quite rapidly in a continental slope. This continental slope is thus the true limit of the continental landmasses, and it carries ocean depths down to an average of 6000 ft. (1800 m).





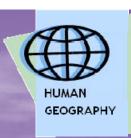
فلات قاره ها از نظر عرض بسيار متفاوت مي باشند. مثلا دور از سواحل غربی آمریکای جنوبی سطح دریا فقط حدود چند مایل پایین می اقتد و بنابر این بطور کلی فلات قاره ای وجو ندارد. دور از سواحل غربی آمریکای شمالی ، غرب اروبا جنوب شرقی آسیا فلات قاره صدها مایل یهنا دار در حاشیه فلات قارہ تا عمق ۴۰۰ الی ۶۰۰ یا ( ۱۲۰ تا ۱۸۰ متر) کشیدہ می شود. برخی مواقع در جایی که کف دریا سریعاً بطور کامل در شیب قاره ای پایین می افتد، فلات قاره تا حدودی عمیق تر می گردد. بنابراین شیب قاره ای مزبور مرز واقعی توده های قاره ای است و بطور متوسط تا ۶۰۰۰ یا ( ۱۸۰۰ متر) اعماق اقیانوس را در می نورد.





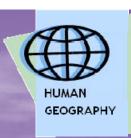
- 8.1.B. Comprehension
- Read the following statements and based on the passage Shield Orogenic Belts and Ocean Floors decide which are true (T) and which are false (F):
- Mountain belts are made of granite. F
- 2. continental slope is the real limit of continental landmasses.
- 3. Rigid parts of the crust are called plains.





- 8.1.c. Answering detailed questions
- Choose the correct answer to fill in the blank:
- Today, shield are generally ......
- A. Mountain ranges
- √ B. Plains with wavy surface
  - C. Volcanic mountains
  - D. Made of sedimentary rocks





- 2. The width of the continental shelf off shores of western south America is...
- A. About 400 ft.
- V B. Almost non existing
  - **C.** About 1800 ft.
  - about hundreds of miles
  - shields form the ... of the continents
- A. cores
  - B. soils
  - C. Precambrian
  - D. granite





- 8.4. Grammatical points
- Compare the following sentences:
- A. Plains and mountain belts represent the two basic geological components of the earth.
- B. The two basic geological components of the earth are represented by plains and mountain belts.
- C. The prime minister offered him position in the cabinet.
- C.1. A position in the cabinet was offered him.
- C.2. He was offered a position in the cabinet.





در مثال بالا مي بينيم كه جمله معلوم A به جمله مجهول B به B تبديل شده است براي چنين تبديلي مفعول جمله A بو B تشسته است و همچنين فعل جمله A در حالت سوم و به همراه فعل be أمده است.

در مثال هاي C, C.1 و C.2 مي بينيم كه چون جمله معلوم C.1 كداراي دو مفعول است ، مي توان دو جمله مجهول C.1 و C.2 را از آن ساخت.

در صورتي كه فاعل جمله معلوم از اهميت برخوردار باشد، در جمله مجهول بعد از حرف اضافه by آورده مي شود. در غير اين صورت نيازي به ذكر فاعل نمي باشد .





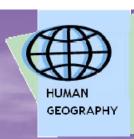
#### 8.4.A. Exercises

change the passive sentences to active ones, and change the active sentences to passive ones.

- 1. They can not find the thief.
  - The thief can not be found.
- The car is being cleaned by Albert.
  Albert is cleaning the car.
- 3. I finished my work at about six o'clock.

  My work was finished at about six o'clock...





- 8.5. Grammatical points
  - Look at the following sentences:
- A.1. He is strong.
- A.2. He is stronger than his sister.
- A.3. He is the strongest in his family.
- B.1. She is intelligent.
- B.2. She is more intelligent than his brother.
- B.3. She is most intelligent in her class.





در مثالهای A می بینیم که اگر صفتی دارای دو سیلاب باشد با افزودن er تبدیل به صفت برتر وبا افزودن est ... the تبدیل به صفت برتر وبا افزودن est ... the برترین می شود.

در مثالهای B می بینیم که هرگاه صفتی دارای more بیشتر از دو سیلاب باشد با افزودن the most به صفت برتر وبا افزودن the most صفت برترین می شود

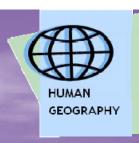




- 8.5.A. Exercises
  - Fill in the blank spaces with an adjective in the correct form.
- 1. My glass is .fuller... than yours.
- 2. he is one of the best...teachers of our school.
- This apple is <a href="mailto:sweeter">sweeter</a> than the other one.</a>
- It is better.. to study during the semester than to wait for the exam night.
- 5. Cheetah is the fastest among all the animals.
- 6. It is not very ...... to learn English.







General Aim

This lesson describes how earthquakes occur and how they effect the surface of the earth and people living on it.

This lesson teaches several common and key words in geography and few grammatical points.

هدف کلی:

این درس چگونگی رخداد زمین لرزه ها و نحوه تأثیر آنها بر سطح زمین و مردمی که بر روی زمین زندگی می کنند را شرح می دهد . همچنین در این درس چند لغت عام وچند واژه کلیدی در مورد جغرافیا و چند نکته دستوری ارائه شده است







- Behavioral Objectives
   After study this lesson, you will be able to:
- 1. Do the comprehension exercises 9.1.B and 9.1.C.
- Define the meaning of the *common words* and do the exercises 9.2.
- 3. Define the meaning of the *key words* and do the exercises 9.3.







- 4. Learn the use of *can and may* in English sentences. Then do exercises 9.4.A.
- 5. Learn the use of some prepositions used to express PLACE such as above, across, along, at, below, through, towards, over in English. Then do exercises 9.5.A.
- 6. *Translate* the paragraph 9.6 into Persian.







- 9.1.A. Pre- reading Questions
- 1. Do you know why earthquakes happen?
- 2. What is tsunami?
- what do you think we can do to decrease or prevent the loss of many lives by destructive earthquakes?







مربوط به زیر دریا the sea

mighty (adj): powerful, strong

magnitude (n): size

Developing countries (n): third world countries

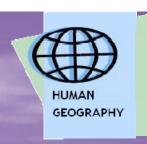
پرقدرت

اندازه ، مقدار

کشورهای در حال رشد







Devastating (adj): destructive , ویرانگر catastrophic

Slide (v): move smoothly, slip سر خوردن ، لیز خوردن

Predication (n): forecast, guess

recording (n): writing accounts of facts, events, etc

پیش کویی

ضبط







Strain (n): condition of being

stretched

direct (n): point out

محكم كشيدن

اشاره ، نشان دادن

Evacuation (n): make empty, leave

تخليه







Focus (n): the location within the earth's crust where the movement of rocks being the earthquake wave.

کانو ن

epicenter (n): the place at the surface of the earth's crust directly above the focus of an earthquake

شعاع زمین لرزه در روی زمین







Key Words: Definition and exemplification

ault (n): a fracture the earth's crust along which displacement

گسل

cliff (n) :a steep , vertical or nearly vertical rock wall carved from bedrock by weathering and erosion

Scarp (n): small escarpment

دیواره ، شیب دار

پرتگاه



#### Earthquakes



#### Key Words: Definition and exemplification

Escarpment (n): the sheer or very steep and wall- like edge of a plateau or mountainous highland

Landslide (n): rapid movement of a mass of rock and soil on steep mountain slope

سینه کش ، دامنه شیب دار

> زمین لغزه ریزش زمین

Tsunami (n): a large scale seismic امواج پرقدرت ناشی sea waves cause by an earthquake از زلزله های زیر آبی shock in the ocean sea floor







Key Words: Definition and exemplification

seismology (n): the study of ولزله شناسی earthquake waves through the layer of the earth

Primary waves (n): directly spread earthquake waves that radiate 'outward in all direction from the focus

امواج اولیه تکانهای اولیه







Key Words: Definition and exemplification

Secondary waves (n): the ، امواج ثانویه earthquake waves which come after زلزله های اصلی primary waves and very damaging

Seismograph (n): a pendulum based instrument for recording seismic waves

زلزله نگار







#### 9.3. Exercises

Fill in the blanks with the correct form of one of the following words.

- tocus, epicenter, fault, cliff, scarp, landslide, tsunami, primary waves, secondary waves,
- 1. Another commonly used name for escarpment is .scarp..
- 2. Primary waves are the seismic waves that are radiated in all direction.
- 3. Through the study of **secondary.waves**, we know that there is a liquid core inside our earth.







Translate the following paragraphs

Earthquakes originate within the crust as well as the upper mantle, but most being within 3 miles (5 (m) of the surface. The point of origin is the earthquake's focus, and the location directly above this focus, at the surface of the crust, is the epicenter. An earthquake results from the sudden movement of rocks that has been under long stress. When two lithospheric plates collide, stresses are created that cause certain rocks to fracture. Such fractures in the crust are called faults, and some faults are well known as the source of repeated severe earthquakes, such as San Andreas Fault in California in the United States.





#### Earthquakes

لرزها از درون پوسته و گوشته بالایی سرچشمه می گیر بیشتر آنها از ۳ مایلی (۵ کیلومتری )سطح زمین شروع مر گردند . نقطه شروع كانون زلزله و مكانى كه مستقيماً بالاي كانو در سطح پوسته می باشد، شعاع زمین لرزه می باشد بیك زلزا از حرکت ناگھانی سنگ که تحت فشار طولانی می باشد، ناشی می گردد زمانی که دو صفحه سنگ کره بهم برخورد می کنند ، فشار ھاپی ایجاد می گردد که سبب می گردد سنگهای مشخصی خرد شوند این شکستگیها در پوسته گسل ها نامیده می شوند و برخی از گسل ها بعنوان منشاء زلزله های شدید مکرر بخوبی شناخته شده اند بنظیر گسل سن اندریاس در کالیفرنیای ایالات متحده آمریکا







different kinds of seismic waves are radiated in all directions. First come the primary waves that travel through the liquid outer core. Next the "shake" (also called shock) or secondary waves, which are very damaging and destructive, reach the seismographs, the "shake" waves are not spread out in fluids, and because they fail to reach that distant zone, a liquid core can be assumed to exist inside our planet.

The field of seismology has contributed much to uncovering of the mysteries of the earth's interior



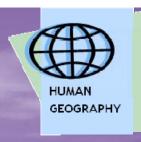


#### Earthquakes

چندین نوع امواج لرزه ای مختلف در تمام جهتها منا می گردند ابتدا امواج اولیه می آید که از میان خارجی أبگونه عبور می كند سپس امواج لرزشی امواج تکانی هم نامیده می شود) یا امواج ثانویه که بسیار مخرب و ویرانگر می باشند به لرزه نگار می رسند این امواج لرزشی درون سیالات منتشر نمی گردند ، و از أنجایی که أنها از رسیدن به منطقه دور باز می مانند ، می تو آن و جود یك هسته آبگونه را در داخل سیار ه مان تصور نمود

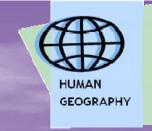






3. A comparison between a map of earthquake incidence and a map of world population will show why so many people are killed by earthquakes. The gh incidence zone lies through regions of dense population in developing countries where buildings are often weak and easily collapsed. However, loss of life occurs even in areas where buildings are modern and strong. This was demonstrated by the devastating earthquake that struck Mexico on September 19, 1985, with a magnitude of 8.1 on Richter scale. This earthquake's epicenter was in the zone off the west coast of Mexico where Cocos plate is sliding under the North American plate.





#### Earthquakes

مقایسه ای میان نقشه وقوع زمین لرزه و نقشه جمعیت جها نشان خواهد داد چرا مردم بسیاری بوسیله زمین لرزه کشته می شوند در کشورهای در حال توسعه منطقه وقوع بالای زمیر لرزه در مناطق متراکم جمعیتی که ساختمان ها غالباً ضعیف بود و به آسانی فرو می ریزند، قرار دارد در هر حال تلفات جانی حتی در مناطقی که ساختمانها جدید و محکم هستند رخ می دهد این امر بوسیله زمین لرزه مخرب که در 19 سیتامبر 1985 مكزيك را لرزاند اثبات شده است شعاع اين زمين لرزه منطقه اي دور از ساحل غربی مکزیك بود ، جایی که صفحه" کوکو "به زیر صفحه " آمریکای شمالی " در حال لغزیدن است .







- 9.1.B. Comprehension
- Read the following statements and based on the passage Earthquakes decide which are true (T) and which are false (F):
- 1. The primary earthquake waves come before the shock.
- the central point of an earthquake is called focus.
- 3. The range of Richter's scale of earthquake magnitudes ranges from 0 to 10







- 9.1.c. Answering detailed questions
- Choose the correct answer to fill in the blank:
- 1. Most quake prone zone lie through ......
- A. Mountainous area
- **B**. Modern countries
- √ C. Developing countries
  - D. Less populated areas







- 2. Tsunami is caused by an earthquake whose
- A. Focus is in a landslide
- ▼ B. Focus is under water
  - C. Center is under water
  - epicenter is in river valleys
  - 3. primary waves of an earthquake travel trough .......
- A. outer core
  - B. Inner core
  - C. Secondary waves
  - D. None of the above



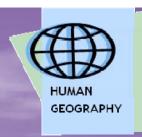




- 9.4. Grammatical points
- Compare the following sentences:
- A.1. John can speak French well.
- A.2. Driving on these roads can be very dangerous.
- A.3. Can it be true?
- B.1. You may go now.
- B.2. People may not pick flowers in this park.
- B.3. The news may be true.



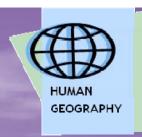




- افعال may و can جزء افعال canمعدود زبان انگلیسی هستند که می توانند با استفاده از not منفی شوند و احتیاج به افعال کمکی ندارند . اگر چه افعال may و can در موارد خاصی مورد استفاده قرار می گیرند. بعضی از این موارد عبارتند از:
- ۱- همانطور که در مثال A.1 مي بينيم از فعل can براي نشان دادن توانايي استفاده مي شود.
- ۲- در مثال A.2 مي بينيم که فعل can براي نشان دادن احتمال وقوع حادثه يا عملي به کار مي رود.
- در مثال A.3 مي بينيم كه فعل can در جملات پرسشي و يا تعجبي كه امكان انجام عملي را مورد پرسش قرار مي دهند به كار مي رود.







- افعال may و can جزء افعال canمعدود زبان انگلیسی هستند که می توانند با استفاده از not منفی شوند و احتیاج به افعال کمکی ندارند . اگر چه افعال may و can در موارد خاصی مورد استفاده قرار می گیرند. بعضی از این موارد عبارتند از:
- ۱- همانطور که در مثال A.1 مي بينيم از فعل can براي نشان دادن توانايي استفاده مي شود.
- ۲- در مثال A.2 مي بينيم که فعل can براي نشان دادن احتمال وقوع حادثه يا عملي به کار مي رود.
- در مثال A.3 مي بينيم كه فعل can در جملات پرسشي و يا تعجبي كه امكان انجام عملي را مورد پرسش قرار مي دهند به كار مي رود.





#### Earthquakes

- سرای اجازه یا اجازه خواستن به کار می B.1 این مورد را نشان می دهد.
- ۵- در مثال B.2 مي بينيم که فعل may براي نشان دادن منو عيت، بخصوص با not انجام عملي استفاده مي شود.
- ۶- در مثال B.3 مي بينيم که فعل may براي نشان دادن احتمال امکان انجام عملي يا احتمال درستي يا نادرستي مطلبي به کار مي رود.

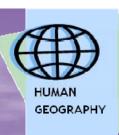






- 9.4.A. Exercises
- choose the correct items to complete the following sentences.
- 1. Jack asked his boss"...... smoke in your office?"
- A. Do
- B. Can
- √C. May
  - D. Had
  - 2. ...... I open the door.
  - A. Do
- √ B. Can
  - C. May
  - D. had





#### General Aim

This lesson discusses different kinds of movements that affect the crust surface of the earth. This lesson teaches several common and key words in geography and few grammatical points.

#### • هدف کل<u>ی:</u>

این درس انواع مختلف حرکاتی که سطح پوسته زمین را متأتر می سازند را مورد بحث و بررسی قرار می دهد. همچنین در این درس چند لغت عام و چند واژه کلیدی درمورد جغرافیا و چند نکته دستوری ارائه شده است.



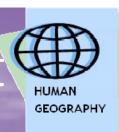


- Behavioral Objectives
   After study this lesson, you will be able to:
- 1. Do the comprehension exercises 10.1.B and 10.1.C.
- Define the meaning of the *common words* and do the exercises 10.2.
- 3. Define the meaning of the *key words* and do the exercises 10.3.



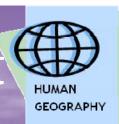
- 4. Learn to use of either .... Or and neither ..... Nor pattern in English sentences . Then do exercises 10.4.A.
- Learn to use *present perfect and present perfect continuous* tenses in English sentences. Then do exercises 10.5.A.
- 6. *Translate* the paragraph 10.6 into Persian.





- 10.1.A. Pre- reading Questions
- 1. Do you know what kind of movements affect the crust of the earth?
- 2. how the crustal equilibrium is disturbed?
- Do you know what is isostasy?
- 4. Do you know what is diastrophism?





Common Words: Definition and exemplification

complicated (adj): complex, difficult

پیچیده

adjustment (n): shift, change, put in order

تطبيق ، تعديل

Swampy (adj): watery and soaked (land)

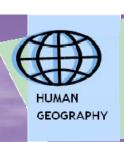
باتلاقي

sagging (adj): sinking or curving in the middle under weight or pressure

انحنا ، فرورفتگی

كانوني





Common Words: Definition and exemplification

restore (v): reestablish, bring back toبه حال اول برگرداندروthe former position

retreat (n): withdraw, evacuate

matching (adj): alike, corresponding to

profile (n): shape

dimple (v): having small hollow

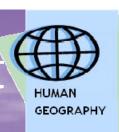
مشابهت ، برابری کردن

نیمرخ ، برش طولی

چاله، گودي

عقب نشینی





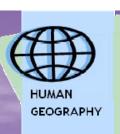
#### Key Words: Definition and exemplification

لیتوسفر ، ، the earth's solid curst ، ، the uppermost solid layer of the earth سنگ کر ه which is above the asthenosphere

روی هم قرار گیری Subduction process (n) :when صفحات زمین ، زیر one plate slides under the other ماندگی

Plate tectonic (n): where two plates تلاقی صفحه come to contact and meet





Key Words: Definition and exemplification

when various forces have created a state or form which will not be altered unless the controlling forces change.

delta (n): alluvial lowland at the mouth of a river

موازنه

دلتا



HUMAN GEOGRAPHY

Key Words: Definition and exemplification

Isostasy (n): principle of balance between sial and sima in the earth's crust, in which light sialic mountain ranges are thought to have root that extend deeply into the sima below تعادل

diastrophism (n): the forces which have disturbed or deformed the earth's crust

تحولات پوسته زمین



**Key Words: Definition and exemplification** 

روند شکل گیری pirogeny (n): the process of mountain building through regional uplift without significant deformation or tectonic activity



#### HUMAN GEOGRAPHY

#### 10.3. Exercises

Fill in the blanks with the correct form of one of the following words.

- Epirogeny, diastrophism , Plate contact , Equilibrium, lithosphere, Subduction process
- Beneath the surface of the earth, the crust adjusts to restore equilibrium between the crust and mantle.
- 2. The uppermost layer of the crust which is above the asthenospher is lithosphere
- 3. epirogeny.....causes slight tilt in the surface but it has much affect on the landscapes

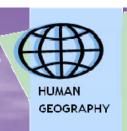


GEOGRAPHY

#### Translate the following paragraphs

There is evidence that the crust and mantle are in dynamic adjustment when there is nothing to disturb hat adjustment. However, since the *lithospheric* plates are constantly in motion and bécause conditions at the surface also change, the equilibrium is frequently disturbed. How dose it work? Take as an example, an old *long established delta*. For millions of years, A major river, as *Mississippi river*, has been depositing sediments at its mount, enough to build mountains and to block the river's mount. However nothing of this sort happens. The delta may grow larger, but its landscape stays the same: shallow, swampy and sagging slowly as the weight of the sediments increases.





شواهدی وجود دارد که پوسته و گوشته در تعادل دینامیکی می باشند البته زمانی که چیزی برای برهم زدن این تعادل وجود نداشته باشد. در هر حال تا زمانی که صفحات لیتوسفری بطور پیوسته در حرکت هستند چون شرایط در سطح نیز تغییر می کند، موازنه بطور مکرر مختل می گردد. موازنه چگونه عمل می کند. مثالی از بك دلتای بسیار قدیمی در نظر بگیرید. بك رودخانه بزرگ مانند می سی سی پی برای میلیونها سال در حال رسوبگذاری در دهانه اش بوده است بقدری که برای ساختن کوه و بستن دهانه رودخانه کافی بوده است. در هر حال هیچك از موارد مذکور اتفاق نمی افتد دلتا ممکن است طویل تر گردد اما چشم اندازش ثابت می مانند: کم عمق و باتلاقی که که همچنانکه وزن رسوبات افزایش می یابد به آرامی انحنا پیدا می کند.



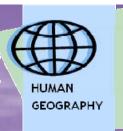


2. Movements in the crust that lead to deformation rocks in the lithosphere are cases diastrophism. These range from the gentle tilting or slight warping of a large part of tectonic plate to the bending and breaking of rocks. When the plates move, they sometimes rise up slightly toward their leading edge, and this creates an equally slight tilt at the surface. It is thought that the astenosphere'S convectional currents may not provide the same support under all parts of the plates; so part of a plate may "dimple" just a little, perhaps temporarily. Such changes are instances of epirogeny, the tilting of a large area but with very little crustal deformation.



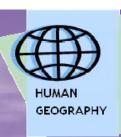
کر دند مو ار دی از تحو لات بوسته ز مین می باشند. صفحات حرکت می کنند، برخی مواقع به آر امی به سمت برجسته اشان بلند می شوند و این حرکت بك سطح ایجاد می کند. از انجایی که تصور می شود که همگر ایتی آستنو سفر ی امکان ندار د زیر تمام فسمتهای صفحات شاید موقتی گود بیفند . چنین تغییراتی نمونه هایی از روند شکل گیری خشکیها یعنی انحراف سطح وسیع توام با تغییر شکل پوسته ای آر ام می باشند.





- 10.1.B. Comprehension
- Read the following statements and based on the passage Earthquakes decide which are true (T) and which are false (F):
- The upward adjustment of the crust makes the lithosphere heavier.
- 2. The crustal equilibrium is in stable condition.
- 3. Epirogeny is the tilting of a range area with very little crustal deformation





- 10.1.c. Answering detailed questions
- Choose the correct answer to fill in the blank:
- The movements of the inner earth is considered to be a part of the ......
- A. atmosphere
- B. asthenospher
- C. crustal equilibrium
  - D. Tectonic plate





2. We can find the deepest sial roots beneath



- A. mountains
  - B. rivers
  - **C** deltas
  - D. glacier
  - 3. Diastrophism involves .......
  - A. slight tilting of tectonic plates
  - B. Bending or breaking of rocks
  - C. isostasy
  - D A & B



- 10.4. Grammatical points
- Compare the following sentences:
- A.1. you should either work harder or go into another class.
- A.2. Either tomorrow or Tuesday is convenient for me to go on a picnic.
- B.1. Neither your answer is right nor mine is.
- B.2. she doesn't like fish, neither do you





- حرف ربط either.....or به معناي "ابن يا آن" مي باشد و همانطور كه در مثالهاي A.1 و A.2 مي بينيم براي دو قسمت يك جمله مركب و يا دو عبارت يك جمله بكار مي رود.
- حرف ربط neither.....nor به معناي " نه ابن و نه آن" مي باشد . در مثالهاي B.1 و B.2 مي بينيم که neither.....nor به مانند either.....or فقط با معني متفاوت استفاده ميشوند
- اگر چه مثال B.2 نشان مي دهد كه اگر B.2 ااب ان تنهايي استفاده كنيم جاي فعل و فاعل در جمله بعد از آن عوض خواهد شد



- Complete the following sentences using neither .....nor or either.....or.
- 1. I don't agree with you , .. neither .. does my friend
- 2 neither the quality nor....the prices have changed.
- Peter did not study , neither ... did Jack.
- 4. Today, I like to buy either...a blue coat or....a dark hat!
- 5. Can either. you .or....your friend give me a ride.

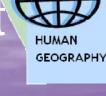


10.5. Grammatical points

Compare the following sentences:

- A.1. I have lost my pen; I am unable to do my exercise.
- A.2. The mail has just come.
- A.3. I have seen this movie before.
- B. For million years, Mississippi river has been depositing sediment at its mouth





در مثالهاي A موارد استفاده از ماضي نقلي را مي بينيم. ماضي نقلي براي موارد زير استفاده مي شود:

۱- بیان عملي که در گذشته انجام شده است ولي از آن زمان تا کنون باقي است.(مثال A.1)

۲- بیان عملی که تازه تمام شده است. (مثال A.2)

۳- بیان عملی که زمان انجام آن نامشخص است. (مثال A.3)

در مثال B مي بينيم كه زمان ماضي نقلي استمراري براي بيان استمرار داشتن عملي كه در گذشته شروع شده و تا كنون نيز ادامه دارد، استفاده مي شود. البته احتمال دارد كه اين عمل در زمان آينده نبز ادامه داشته باشد.



10.5.A. Exercises

- Complete the following sentences with either present perfect or present perfect continuous from of verb in parentheses.
- 1. I. have just eaten and I am not hungry. (eat)
- 2. He has been studding English since he was 10 years old. (study)
- 3. I have.... never met.....your sister. (meet)
- 4. Has...George ... finished all the sweet. (finish)
- 5. I have been living in Tehran for 2 years. (live).







#### General Aim

This lesson briefly introduce the concept of erosion and then focuses on the erosion caused by river. This lesson teaches several common and key words in geography and few grammatical points.

#### مدف کلی:

این درس بطور مختصر مفهوم فرسایش را معرفی نموده و سپس بر فرسایش رودخانه ای متمورکز می گردد. همچنین در این درس چند لغت عام وچند واژه کلیدی درمورد جغرافیا و چند نکته دستوری ارائه شده است.





- Behavioral Objectives
   After study this lesson, you will be able to:
- 1. Do the comprehension exercises 11.1.B and 11.1.C.
- Define the meaning of the *common words* and do the exercises 11.2.
- 3. Define the meaning of the *key words* and do the exercises 11.3.





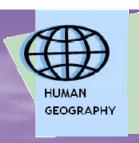
- 4. Learn the two different uses of *there* as a *subject and as an adverb* in English sentences. Then do exercises 11.4.A.
- 5. Learn the use and function of *rather* and *rather* .....than in English sentences . Then do exercises. Then do exercises 11.5.A.
- 6. Translate the paragraph 11.6 into Persian.





- 11.1.A. Pre- reading Questions
- 1. Do you know what is the important agent of erosion?
- 2. what is corrosion?
- 3. When dose degradation occur?
- 4. Do you know the causes of valley deepening?





Common Words: Definition and exemplification

exposed (adj): uncovered, left

unprotected

disintegration (n): decompose, break

into small parts

Sculpting (n): sculpture, forming

Agent (n): person or thing producing an effect

روباز

متلاشي شدن

شکل دادن

عامل





Common Words: Definition and exemplification

cad (n): cargo, that which is carried specially when it is heavy

معمول ، متداول Prevailing (adj): dominant, widespread

Overestimate (adj): exaggerate

volume (n): amount

velocity (n): speed

بر أورد اضافي

مقدار، توده ، حجم سرعت







Common Words: Definition and exemplification

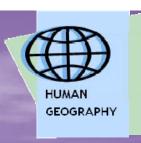
Ine (adj): thin, small, subtle

نرم ، ریز

Susceptible (adj): prone, capable of

مستعد ، قابل





Key Words: Definition and exemplification

channel (n): the deepest part of a river ترعه، مجرا bed

degradation (n): wearing down of the landscape by stream

سابش

levee (n): a natural bank built خاکریز (کنارہ اي که up by a stream along the edge در هنگام وقوع سيل of its channel





#### Key Words: Definition and exemplification

aggradation (n): the building up of a stream bed or other surface through the deposition of sediment done by streams, glaciers, waves and winds

رسوب گذاري ، صاف كردن

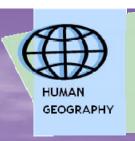
Bank (n): margin or side of a river

کناره رودخانه

valley (n): an elongated depression sloping toward the sea or an island drainage basin

در ه





Key Words: Definition and exemplification

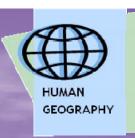
Alluvium (n): sediment deposited in the stream valley or channel when the velocity of the river decreases

abrasion (n): the process of eroding by running water, glacial ice, waves and wind, it involves the grinding of rocks to finer sediment reach

فرسایش دریایی







Key Words: Definition and exemplification

Corrosion (n): erosion by solution

فرسایش شیمیایی

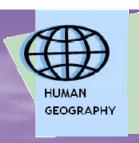
Boulder (n): a large piece of rock

قلوه سنگ

Traction (n): the process undergone by material being dragged along a river bed

حمل اجسام در بستر





**Key Words: Definition and exemplification** 

حرکت ناگهانی Saltation (n): a rolling or bouncing of small rock particles, driven by stream water or wind action

Eddy (n): a movement of a fluid گرداب، گردباد substance, particularly air and water, within a larger one suspension (n): in stream or wind transportation, the removal of particles above the stream bed or bedrock surface for long time





#### 11.3. Exercises

Fill in the blanks with the correct form of one of the following words.

- Eddy, suspension, Corrosion, Traction, Boulder, Alluvial, abrasion, velocity, levee, exposed
- 1. The alluvial..... soil filled the bottom of the river valley.
- 2. The process of traction is almost opposite of ..suspension
- 3. Mountain stream are powerful enough to carry....boulders





- Translate the following paragraphs
- 1. Exposed rocks of the earth's crust are under continuous attack by numerous processes. Many of theses processes can be grouped under two categories; weathering and erosion. Weathering is the mechanical disintegrated of rocks but without significant movement of the fragments produced. Erosion involves both the breakdown of rocks by water, ice or wind and *removal* of fragments created by weathering and erosional processes. Important of weathering and mass movements are in the sculpting of landscapes, they come no where near matching stream erosion in their total effect on the continents. Rivers and streams are the dominant agents of erosion. They are the major forces that attack mountains and destroy plateaus.







رخنمون هاي سنگي پوسته زمين تحت حملات مداوم فرآيندهاي بيشماري مي باشند. بسياري از اين فرآيندها مي توانند تحت در دسته گروه بندي شوند: هوازدگي و فرسايش. هوازدگي تجزيه فيزيكي و شيمايي سنگها اما بدون حركت قابل توجه قطعات توليد شده ، مي باشد. فرسايش هم شكستگي و خردشدگي سنگها بوسيله آب ، باد و يخ و هم انتقال قطعات ايجاد شده ناشي از فرآيندهاي هوازدگي و فرسايش را در بر مي گيرد.

اهمیت هوازدگی و حرکات توده ای در شکل دادن به چشم انداز ها می باشد، آنها در مجموع از نظر تأثیر شان بر قاره ها تقریباً در هیج کجا مشابه فرسایش رودخانه ای نمی باشند. رودخانه ها و جویبارها عامل متداول فرسایش می باشند. آنها نیروهای اصلی می باشند که به کوهها حمله کرده و فلاتها را تخریب می کنند.



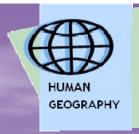




2. Stream erosion takes place in more than one way. We give the name hydraulic action to the force of the moving water that alone is enough to move and drug away material from the valley bottom. Theses loosened materials, especially larger pieces, loosen still other parts of the valley floor as they roll and bounce along in the water. In the process, they are ground down to finer sediment. This is abrasion, an important contributor to the valley deepening process. Certain rocks that the river flows over are susceptible to solution. This chemical form of erosion is identified as corrosion, the least significant contributor to the overall erosion by rivers. Of course, we should not overlook the river, s contribution to mass movement of the valley sides. Collapse of valley sides from river's undercutting is a very important process in the sculpting of land surfaces.







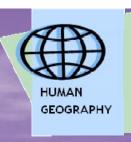
فرسایش رودخانه ای در بیش از یك روش اتفاق می افتد. ما با نیرویی آب جاری که به تنهایی برای کندن و حرکت مواد از کف در کفایت می کند، *فعالیت هیدر ولیکی* اطلاق می کنیم. این مو اد سست شد ، بویژه قطعات در شتر، همچنانکه در آب غلطیده و بالا و پایین ا روند ، همراه با دیگر قسمتهای دره ، هنوز سست تر می گردند. در این مرحله آنها به *رسوبات ریز* تبدیل می شوند. ای فرآیند *فرسایش* آبی است که سهم مهمی در ع*میق کردن دره* دارد. سنگها*ی* مشخصی که رودخانه بر آنها جریان دار د مستعد حل شدن می باشند. این شکل شیمیایی فرسایش بعنوان فرسایش شیمیایی، کم اهمیت ترین عامل در فرسایش کلی رودخانه ای، تعریف شده است. البته ما سهم رودخانه ها در حرکات توده ای کناره های دره را ندیده نمی گیریم. ریزش کناره هاي دره ناشي از زير شويي رودخانه فرآيند بسيار مهمي در شكل گيري سطح زمين است.





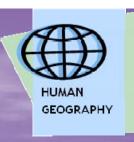
- 11.1.B. Comprehension
- Read the following statements and based on the passage Erosion decide which are true (T) and which are false (F):
- 🚺 Weathering is only mechanical disintegration. 🖡
- corrosion is the least significant contributor to the erosion by river.
- 3. The process of valley deepening is usually most active where the river being.





- 11.1.c. Answering detailed questions
- Choose the correct answer to fill in the blank:
- 1 Erosion involves.....
- Breakdown of rocks
- **B.** Disintegration of rocks
- C. Removal of fragments created by weathering and erosional process
  - D. A&C





- 2. We call the force of the moving water which can carry materials from the valley bottom .....
- A. abrasion
- B. Hydraulic action
  - C. alluvial
  - **D** velocity
  - 3. .....of water is one of the contributors to the process of valley deepening
- A. velocity
  - **B.** Mineral in the water
  - C. The amount of solution in water
  - **D.** Fine sediments



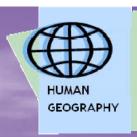




- 11.4. Grammatical points
- Compare the following sentences:
- A. There are five of us in the room.
- B. Many people were there.
- C. There comes John!







- کلمه There در انگلیسي مي تواند در دو نقش فاعلي و قیدي بکار رود.
  - مثال A نقش فاعلي There را نشان مي دهد. There در نقش
     فاعلي معنايي ندارد و فاعل اصلي بعد از فعل مي آيد.
- مثال There ،B را در نقش قیدی قید مکان نشان می دهد. در مثال C نیز There نقش قیدی دارد، اما چون در جمله تعجبی آمده است، برای تأکید به اول جمله آورده شده است. در این جمله فاعل و اقعی بعد از فعل آمده است. There به عنوان قید مکان در جملات عادی نیز برای تأکید می تواند به اول جمله منتقل شود.







### 11.4.A. Exercises

Read the following sentences and decide what is the role of THERE in each sentence. Is it adverb or subject.

- 1. Have you ever been there? adverb
- There the river function as a builder adverb
- 3. There goes Helen! adverb
- 4. I refused to take one more step and I just sat there. adverb
- 5. There is a letter for you on your desk subject



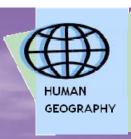




- 11.5. Grammatical points
  - Compare the following sentences:
- A. She would *rather* buy the small hat *than* the large one.
- B. This book is rather too difficult.
- C.1. My grandfather told me a rather nice story.
- C.2. My grandfather told me rather a nice story.

در مثال مي بينيم كه تركيب than.... Rather براي مقايسه كردن بكار مي رود. در مثال هاي B, C بنسبتاً، مي رود. در مثال هاي تقريباً" و يا حتي بدون معنا، قبل از قيد، يك حرف تعريف (شمارشي) و يا بين يك حرف تعريف شمارشي و صفت قرار مي گيرد.





- 11.5.A. Exercises
  - Complete the following sentences using either *rather or rather than*.
  - 1. Wouldn't you ...ather ...be killed ...than .feared?
  - 2 I would..rather..play..than...work.
  - 3. Jack bought a rather nice ......suit
  - 4. Mina'd rather..study geography than....chemistry.
  - 5. That is ..rather.. a beautiful picture ......

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