

*للحصول على أوراق عمل لجميع الصفوف وجميع المواد اضغط هنا

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* للحصول على أوراق عمل لجميع مواد الصف السابع اضغط هنا

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* للحصول على جميع أوراق الصف السابع في مادة علوم ولجميع الفصول, اضغط هنا

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* للحصول على أوراق عمل لجميع مواد الصف السابع في مادة علوم الخاصة بـ الفصل الثالث اضغط هنا

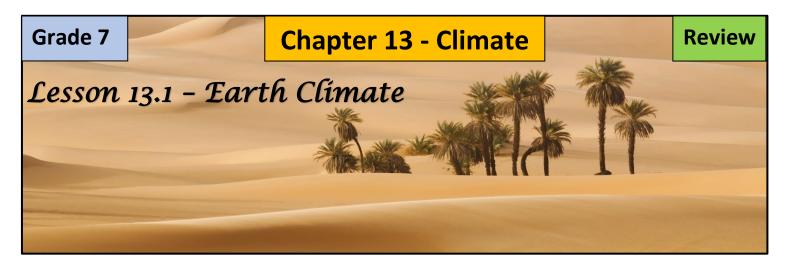
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* لتحميل كتب جميع المواد في جميع الفصول للـ الصف السابع اضغط هنا

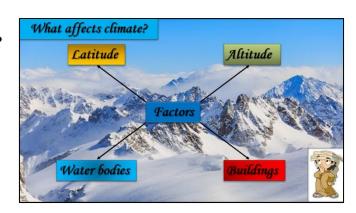
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للتحدث إلى بوت المناهج على تلغرام: اضغط هنا

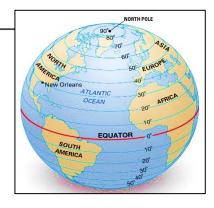
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- 1. What is the difference between weather and climate?
 - Weather is the atmospheric conditions (air temperature, air pressure, humidity, wind direction and wind speed) in a specific area at a specific time.
 - Climate is the long-term average weather conditions that occur in a particular region.
- 2. What does a region's climate depend on?
 - Average temperature
 - Precipitation
 - Change of these variables throughout the year.
- 3. What are the factors that affect climate?
 - Latitude
 - Altitude
 - Large bodies of water
 - Buildings and concrete



- 4. The distance north or south of the equator is called
 - A. altitude
 - B. latitude ✓
 - C. elevation
 - D. longitude

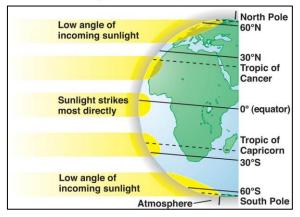


5. Areas closer to the equator (o°) receive more solar energy annually than areas

farther away from the equator.

State some reasons why this occurs.

- The curved surface of the Earth.
- The Sun's energy is spread over a larger area.
- As latitude increases, o° to 90°, the temperature decreases.

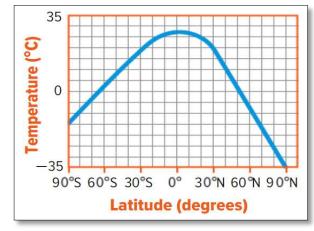


Study the following graph to answer questions 6 and 7.

6. Identify the factor that affects climate, as shown in the graph.



- B. Longitude
- C. Latitude✓
- D. Elevation



7. How does this factor affect climate?

A. As latitude increases, o° to 90°, the temperature decreases. ✓

B. As latitude increases, 0° to 90° , the temperature increases.

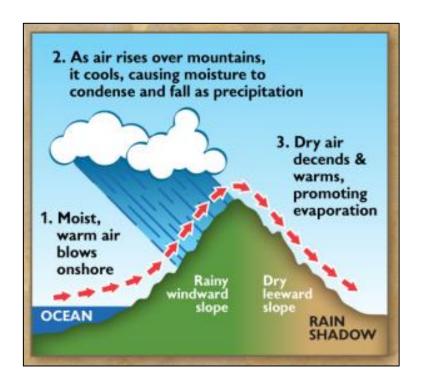
C. As latitude decreases, 90° to 0°, the temperature increases. ✓

D.As latitude decreases, 90° to 0° , the temperature decreases.

8. How is temperature influenced by altitude?

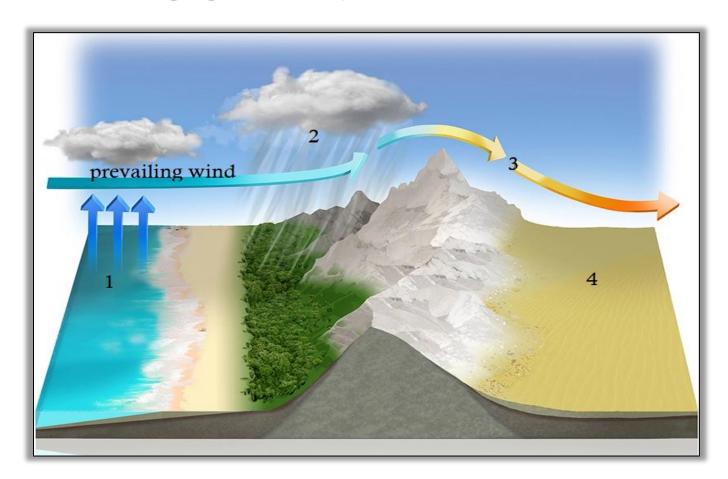
- A. Temperature increases as altitude increases
- B. Temperature decreases as altitude increases ✓
- C. Temperature decreases as altitude decreases
- D. Temperature is not affected by altitude.





- 9. What is a rain shadow?
 An area of low rainfall on the downwind/leeward slope of a mountain.
- 10. A rain shadow is created by which factor that affects climate?
 - A. A large body of water
 - B. Buildings and concrete
 - C. Latitude
 - D. Mountains ✓

Use the following diagram to answer questions 11, 12, 13 and 14.



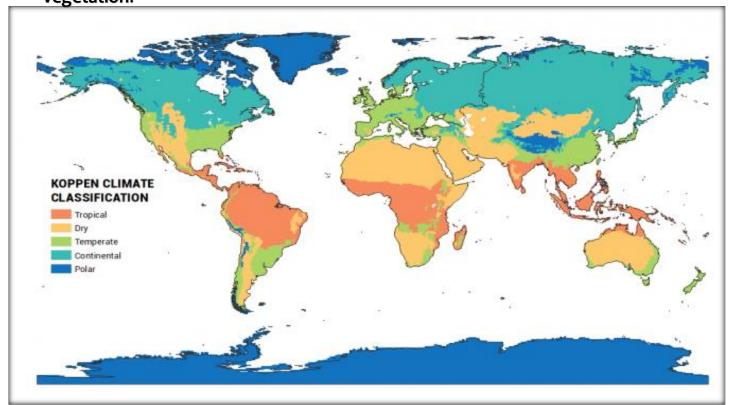
11.	What type of air will you find at	?		
	A. moist, cool air	C. dry, warm air		
	B. moist, warm air✓	D. dry, wet air		
12.	What happens to the air as it approaches the area marked 2?			
	A. The air sinks and warms up.	C. The air rises and warms up.		
	B. The air sinks and cools down	D. The air rises and cools down.✓		
13.	What type of air passes over the	mountain at 3?		
	A. moist, cool air	C. dry, warm air✓		
	B. moist, warm air	D. dry, wet air		
14.	What kind of climate would you	expect to find at position 4?		
	A. mild	C. continental		
	B. tropical	D. dry✓		
15.	The amount of thermal energy needed to raise the temperature of 1 kg			
	of a material by 1°C is called A. specific heat ✓	C. specific climate		
	B. specific wind	D. specific price		
16.	The specific heat of water is	than the specific heat of land.		
	A. higher√	C. lower		
	B. less efficient	D. more efficient		
17.	How do large bodies of water influence climate?			
	In summer, water is cooler than the air and absorbs thermal energy from the air			
	keeping air cooler.			
	In winter, water is warme	than the air and releases thermal energy into the a	ir.	

> Climates near coastlines maintain more constant temperatures than land farther

from coastlines.

keeping air temperatures warmer.

18. The following map shows the different climate regions as classified by Wladimir Köppen. Köppen classified a region's climate by studying its **temperature**, **precipitation** and **vegetation**.



Summary of climate types:

Climate type	Description
Tropical	Warm year round, high precipitation
Dry	Hot summers, cooler winter, very low precipitation
Mild/Temperate	Warm summers, mild winters, high precipitation
Continental	Warm summers, cold winters, moderate precipitation
Polar	Cold year round, minimal precipitation

- 19. Which climate typically has warm summers, cold winters, and moderate precipitation?
 - A. continental ✓

C. dry

B. tropical

D. polar

20. Why is one climate different from another?

Difference in latitude, altitude, and proximities to bodies of water, forests and cities all contribute to climate differences.

- 21. The difference in air temperature between a city and the surrounding rural area.
 - A. inversion

C. microclimate ✓

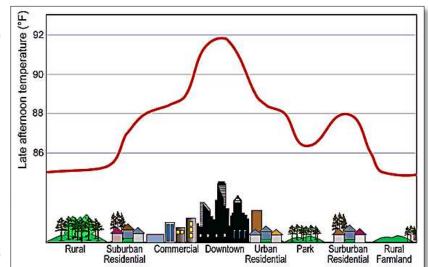
B. seasonal variation

- D. weather system
- 22. Which of the following are examples of microclimates?
 - A. forests

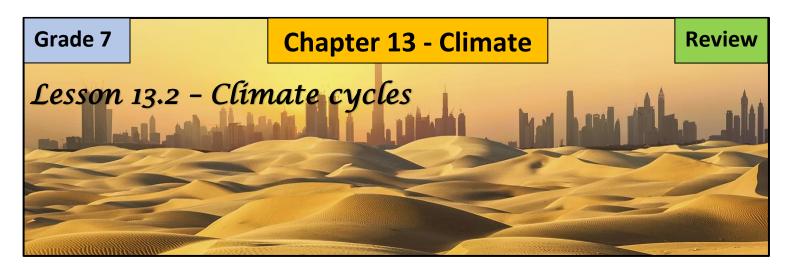
C. urban areas

B. hilltops

- D. all of the above ✓
- 23. Which area on the graph shows the highest temperature?
 - A. park
 - B. suburban residential
 - C. rural farmland
 - D. downtown√



- 24. Which area on the graph shows the lowest temperature?
 - A. park
 - B. commercial
 - C. rural farmland✓
 - D. downtown



- 1. What do scientists study to learn more about past climates?
 - A. fossilized pollens✓

D. ocean sediments ✓

B. layers of rock

E. growth rings of trees ✓

C. ice cores ✓

- F. seasonal orbits
- 2. are cold periods lasting from hundreds to millions of years when glaciers cover much of Earth.
 - A. Monsoons

C. Ice ages ✓

B. Drought

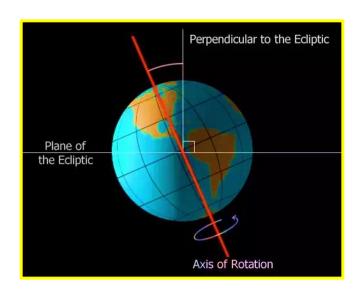
- D. Heat waves
- 3. The warm periods that occur during ice ages or between ice ages are called
 - A. interglacials ✓

C. El Niño

B. seasons

- D. monsoons
- 4. Name two factors that cause long-term climate cycles.
 - A. shape of Earth's orbit ✓
- C. gases dissolving and freezing in ice
- B. changes in tilt of Earth's axis ✓ D. study of ice cores
- 5. Which one of the following factors does not cause long-term climate cycles?
 - A. Changes in ocean circulation.
 - B. Earth's revolution of the Sun.
 - C. The slow movement of the continents. ✓
 - D. Variations in shape of Earth's orbit.

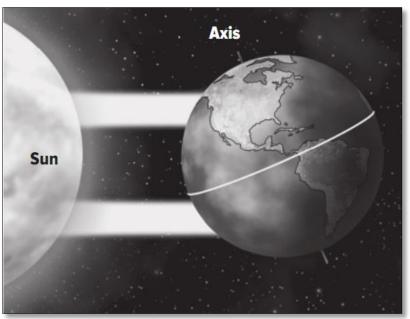
- 6. What is the current tilt in Earth's axis?
 - A. 22.5°
 - B. 23.5°√
 - C. 25.3°
 - D. 24.5°
- 7. What are the effects of Earth's axis tilt?
 - A. It causes ocean currents.
 - B. It causes winds.
 - C. It causes.
 - D. It causes seasons. ✓



- 8. What is the primary cause of seasonal changes on Earth?
 - A. Earth's distance from the Sun
 - B. Earth's ocean currents
 - C. Earth's prevailing winds
 - D. Earth's tilt on its axis ✓

Use the diagram to answer questions 9 and 10.

- 9. Which season is it in North America?
 - A. fall
 - B. spring
 - C. summer√
 - D. winter
- 10. Which season is it in South America?
 - A. fall
 - B. spring
 - C. summer
 - D. winter√

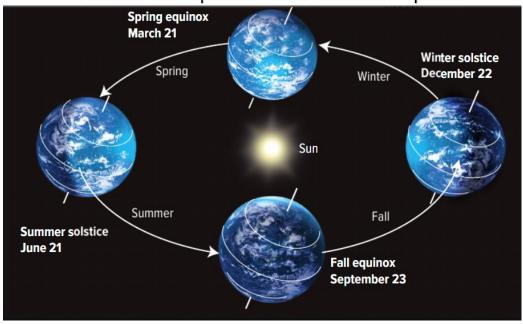


11. Define Solstices and Equinoxes.

Solstice - start of summer and winter

Equinox – start of spring and fall

Solstices and equinoxes in Northern Hemisphere



Use the Solstice and Equinox diagram above to answer questions 12 and 13.

- 12. Which season is it in the Southern hemisphere in July?
 - A. summer
 - B. fall
 - C. winter√
 - D. spring
- 13. Which season is it in the Northern hemisphere in April?
 - A. summer
 - B. fall
 - C. winter
 - D. spring ✓

- 14. During which event do trade winds weaken and the usual pattern of pressure across the Pacific Ocean reverses?
 - A. Drought
 - B. El Niño/Southern Oscillation event✓
 - C. North Atlantic Oscillation event
 - D. Volcanic eruption
- 15. A ______ is a wind circulation pattern that changes direction with the seasons.
 - A. monsoon√
 - B. hurricane
 - C. tornado
 - D. typhoon
- 16. In the diagram of the Asian winter monsoon, what does 1 represent?
 - A. High pressure ✓
 - B. Increased precipitation
 - C. Low pressure
 - D. Wind speed
- 17. In the diagram of the Asian winter monsoon, what does 2 represent?
 - A. High pressure
 - B. Increased precipitation
 - C. Low pressure ✓
 - D. Wind speed

