6th Grade Thanksgiving Packet

Student Name: ____________________________ Date: ___________

Teacher Name: Kanika Allen Score: ___________

1) Oil use as an energy source has both positive and negative effects on society. One positive effect would include
   A) the creation of engines that can operate on alternate fuel sources.
   B) emissions from internal combustion engines adding to the greenhouse effect.
   C) the Exxon Valdez oil spill that destroyed habitats and the destruction of many animals.
   D) the need for oil that has led to the United States’ dependence on other countries for oil.

2) ____________ preserves soft tissues of plants or animals as a thin carbon film, usually in fine-grained shale sediments.
   A) A trace fossil
   B) Crystallization
   C) Recrystallization
   D) Carbonization

3) Earth is the only planet that is believed capable of supporting life because it has
   A) an atmosphere.
   B) gravity.
   C) a moon.
   D) water.

4) Clouds form when water vapor moves into the atmosphere. What drives this process?
   A) evaporation
   B) solar energy
   C) condensation
   D) convection currents
5) Which type of cloud forms when fog lifts away from the ground?
   A) cirrus
   B) cumulonimbus
   C) cumulus
   D) stratus

6) What percent of the earth is covered by water?
   A) 20%
   B) 50%
   C) 70%
   D) 85%
7) In the 1960s the theory of plate tectonics was further developed through advancements in the study of
   A) river sources.
   B) large canyons.
   C) woodland ranges.
   D) oceanic trenches.

8) The two most abundant elements in ocean water, besides hydrogen and oxygen, are
   A) salt and sodium.
   B) salt and chlorine.
   C) sodium and calcium.
   D) sodium and chlorine.

9) How is the sun the major source of energy in the water cycle?
   A) It provides the energy to condense atmospheric water vapor into rain.
   B) It provides the energy to create winds that blow air masses across the Earth.
   C) It provides the energy to evaporate water on Earth into the atmosphere.
   D) It provides the energy needed for water to be transported downhill from mountains to rivers and oceans.

10) The Hawaiian Islands were formed by seamounts that rose above the ocean surface. What was the original source of the seamount
    A) underwater volcanoes
    B) earthquakes
    C) landslides
    D) faulting

11) Pat made three balls of soil: sand, clay, and silt. Then she made a ball of loam by mixing sand and clay. She squeezed each ba
    Which ball MOST LIKELY stayed together?
    A) the ball of sand
    B) the ball of silt
    C) the ball of clay
    D) the ball of loam

12) Earth could not support life if it was a smaller planet because
    A) Earth would fly out of its orbit.
    B) there would be no tectonic plates.
    C) Earth could not hold on to its atmosphere.
D) the gravitational force of Earth would be too great.
Consider the layers of the Earth seen here. Where would you find the elements listed above?

A) atmosphere  
B) core  
C) crust  
D) mantle

What is true of sand dunes?

A) They are built by waves.  
B) They are made by rivers cutting through land.  
C) They are built by water carrying sediment away.  
D) They are built by the deposition of sand by wind.
15)

Minerals can be identified according to their properties. Alan finds a mineral that is shiny. In which category does Alan’s mineral belong?

\[\text{_________} = \text{shiny}\]

\[\text{nonmetallic} = \text{dull, glassy}\]

A) cleavage
B) hardness
C) metallic
D) nonmetallic

16)

Global warming? Marge and Carlos do not believe it! They have been collecting data to determine the average monthly temperature at thirty sites throughout the state. The samples, recorded in degrees Celsius, have been compiled in a spreadsheet. Marge and Carlos would like to show the change in average temperature in the state, over a time span of five years, in a presentation to the state’s environmental agencies.

What would be the BEST way to represent this data that illustrates change in average temperature over time?

A) a data table of all data collected for the five years
B) a bar graph comparing each year’s average temperature
C) a map of the state with the average temperatures written at each site
D) a line graph showing the average change in temperature over five years
17) Environmentalists in Florida are against offshore drilling in the Gulf of Mexico MAINLY because the drilling might
A) pollute beaches.
B) emit carbon dioxide.
C) cause global warming.
D) cause acidification.

18) Mary lay in bed and watched the constellations move on the ceiling over her head. Her parents had bought her a star projector that projected them there.

The stars moved in a circle across the ceiling, so her view was always changing. Is this what happens in real life?
A) Yes. The stars orbit the sun.
B) Yes. The stars are orbiting around Earth.
C) No. Both the earth and stars are orbiting around the sun.
D) No. The earth moves, which makes the stars appear to move.

19)
As this cumulus cloud grows, the bottom turns black and it becomes a cumulonimbus cloud. This cloud is a signal for what kind of weather?

A) snow storm  
B) thunderstorm  
C) sunny weather  
D) cool and cloudy

20) In which zone is the ocean temperature most affected by the weather?

A) the deep zone  
B) the surface zone  
C) the abyssal zone  
D) the transition zone

21) Which of these is the best method to seek protection from a tornado?

A) Stand under a tree in an open field.  
B) Move to the lowest floor of the building.  
C) Get into a car and move away from tornado.  
D) Come out into an open field with no buildings around it.

22) Which of these is the BEST example of the sustainable use of a natural resource?

A) a treaty is reached to set a fixed price for oil  
B) farmers use irrigation to grow lettuce and other vegetable crops  
C) several governments agree to limit the amount of fish harvested from an ocean  
D) utility companies switch from coal to natural gas fuels to produce electricity

23) What events caused the formation of most islands in the South Pacific?

A) earthquakes  
B) hurricanes  
C) meteors  
D) volcanoes
24) A rock has alternating layers of dark and light colors. The rock has visible quartz crystals and does not contain any fossils. Where was this rock MOST LIKELY formed?
A) in a river bed
B) on the ocean floor
C) deep under the earth
D) in an active volcano

25) In this process, the soft tissue of organisms, usually plants, fish, or insects, are preserved when the organism is buried in sediment. Then the hydrogen, oxygen, and nitrogen within the organism’s body turn to gases and escape. The remaining element leaves a black film in the rock. This type of fossil is called a
A) cast.
B) carbon film.
C) trace fossil.
D) petrification.

26)
This is a picture of a large sheet of ice that moves very slowly across the land. This sheet of ice covers the land and is only found where temperatures are extremely cold. What is this large sheet of ice called?

A) glacier  
B) lake  
C) pond  
D) sea

27) Which is a nonrenewable source of energy?

A) wind  
B) hydropower  
C) natural gas  
D) solar energy

28) The planet Venus, our moon, and Halley’s Comet all

A) are larger than the earth.  
B) are composed of primarily hydrogen.  
C) change speed dramatically as they orbit.  
D) have highly predictable orbits around the sun.

29) The MAIN difference between terrestrial planets and gas giants is

A) the way they were formed.  
B) the shape of their orbits.  
C) the level of their density.  
D) the plane in which they lie.
This is a type of cloud that gets bigger and bigger, sometimes getting very dark on the bottom. This is a sign to us on earth that ________ will fall soon.

A) dew  
B) fog  
C) rain  
D) temperatures

On the coast, strong breezes (H5) move cool air into the land (L2) to replace warm, rising air. When the cool air meets the warmer air, ________ may occur.

A) cyclones
Precipitation moves down into the soil and becomes groundwater. Groundwater that travels into the saturated soil zone becomes part of
A) an aquifer.
B) the oceans.
C) precipitation.
D) surface run-off.
The Earth is FARTHEST from the Sun in
A) February.
B) January.
C) July.
D) October.

Geologists trying to drill into the mantle would MOST LIKELY drill from a platform in the ocean, rather than on land, because the crust beneath the ocean is
A) older.
B) softer.
C) thinner.
D) less dense.
In the water cycle, water vapor evaporates into the atmosphere and forms clouds through condensation. What happens in the atmosphere to the water in order for the clouds to form?

A) Water drops mix with air pollution to form clouds.
B) The evaporated water warms up and moves closer together.
C) The evaporated water cools and drops get closer together.
D) The sun heats the evaporated water and the water drops move faster.
### Continental and Oceanic Landforms

<table>
<thead>
<tr>
<th>Description</th>
<th>Continental</th>
<th>Oceanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>The low lying land between hills or mountains</td>
<td>?</td>
<td>Rift zone</td>
</tr>
<tr>
<td>Deep valley with high steep sides</td>
<td>Canyon</td>
<td>Trench</td>
</tr>
<tr>
<td>Opening in Earth's crust, which allows magma, ash, and gases to escape from below</td>
<td>Volcano</td>
<td>Seamount; volcanic islands</td>
</tr>
<tr>
<td>Land that rises high above the ground</td>
<td>Mountain</td>
<td>Mid-ocean ridge</td>
</tr>
<tr>
<td>Wide, flat areas of land</td>
<td>Plains</td>
<td>Abyssal plains</td>
</tr>
</tbody>
</table>

The table compares continental and oceanic landforms on Earth. What term should be used to replace the question mark in the table?

- A) cavern
- B) delta
- C) plateau
- D) valley

**37)** Which of these is the BEST example of a renewable resource?

- A) oil
- B) coal
- C) trees
- D) granite

**38)**

A solar eclipse can ONLY occur when the moon is in which phase?

- A) New Moon
- B) Full Moon
- C) Quarter Moon
- D) Crescent Moon
Ms. Jones is teaching her class about rocks and minerals. She holds up a rainbow chocolate chip cookie and explains that the cookie is like a rock. Next, she points to the different colored chocolate chips. What do the chocolate chips represent?

A) fossils  
B) gems  
C) minerals  
D) rocks

Which sequence lists the water cycle in order?

A) condensation, evaporation, runoff/storage, precipitation  
B) evaporation, condensation, precipitation, runoff/storage  
C) condensation, precipitation, evaporation, runoff/storage  
D) condensation, runoff/storage, precipitation, evaporation
Los Angeles is a city on the west coast of the United States that is very close to the Pacific Ocean. Land temperatures in Los Angeles remain relatively constant because of winds blowing from the ocean to the land at night and from the land to the ocean during the day. These winds are a result of:

A) Conjunction  
B) Convection  
C) Nondisjunction  
D) Subduction

During what period of time does the Moon appear in the sky on a new-moon day?

A) 12 hours during the day  
B) 12 hours during the night  
C) The first six hours in the day and the next six hours in the night  
D) The first six hours in the night and the next six hours in the day
A review of fossil evidence found throughout the geologic periods on Earth would indicate that during the Silurian period
A) the Earth’s overall climate was much warmer.
B) the majority of Earth’s surface was covered by glaciers.
C) the majority of Earth’s surface was no longer under water.
D) the continents as we know them today were joined together.

Missouri fossils, such as trilobite fossils, are found in the layers of rock formed millions of years ago. A trilobite is
hard-shelled, segmented arthropod which appears in the fossil records from 540 million years ago. An arthropod is an
invertebrate (animal without a back-bone) that has an exoskeleton (external skeleton).

After reading the information above, what present day organism **is not** similar to the trilobite found in Missouri fossil records?
This is a ________ crescent moon.

A) new
B) old
C) quarter
D) waxing