

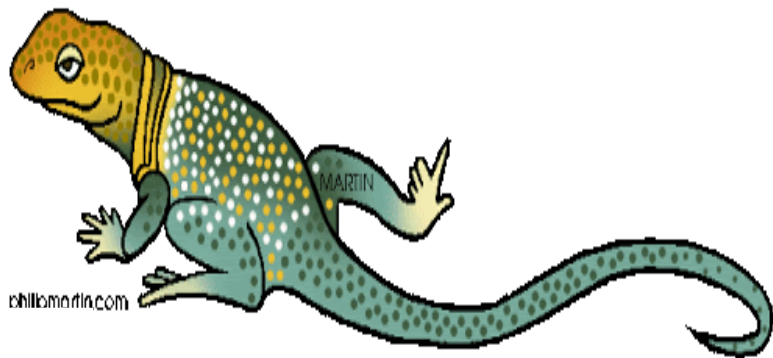


interactive SCIENCE



Grade 5

WORKBOOK



SEMESTER

2

Name: _____

Class: _____

Teacher: _____

PEARSON

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GRADE 5



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WORKBOOK CHECKLIST



Name: _____

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		X		
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Name: _____

Date: ___/___/___

Lesson 1: How Do Plants Get and use Energy? (use with pages 150-157)



Words to Know: Write the word next to the description it matches.

<i>cellular respiration</i>	<i>epidermis tissue</i>	<i>photosynthesis</i>
-----------------------------	-------------------------	-----------------------

- _____ 1. Is the process by which cells breakdown sugar to release energy.
- _____ 2. Is the outside layer of cells on the surface and bottom of a leaf.
- _____ 3. Is the process that plants use to make sugar for food.



Identify the materials being described. Pick your answer from the box.

<i>Carbon dioxide</i>	<i>Oxygen</i>	<i>Sugar</i>	<i>Sunlight</i>	<i>Water</i>
-----------------------	---------------	--------------	-----------------	--------------

- _____ 1. Most often this is absorbed by the roots.
- _____ 2. This is the source of energy used to make sugar.
- _____ 3. This enters the plants through the holes at the bottom of the leaves.
- _____ 4. When the chloroplasts absorb more sunlight, more of this can be made.
- _____ 5. During photosynthesis, this is release through the holes at the bottom of the leaves.



Tell if statement is TRUE or FALSE. Explain your choice.

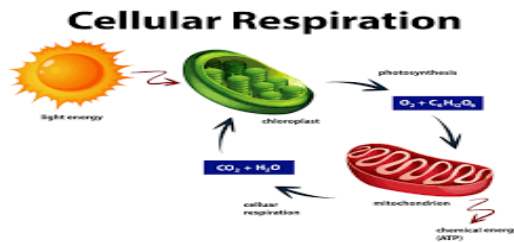


1. A plant releases oxygen into the ground through its roots.

This statement is _____ because _____

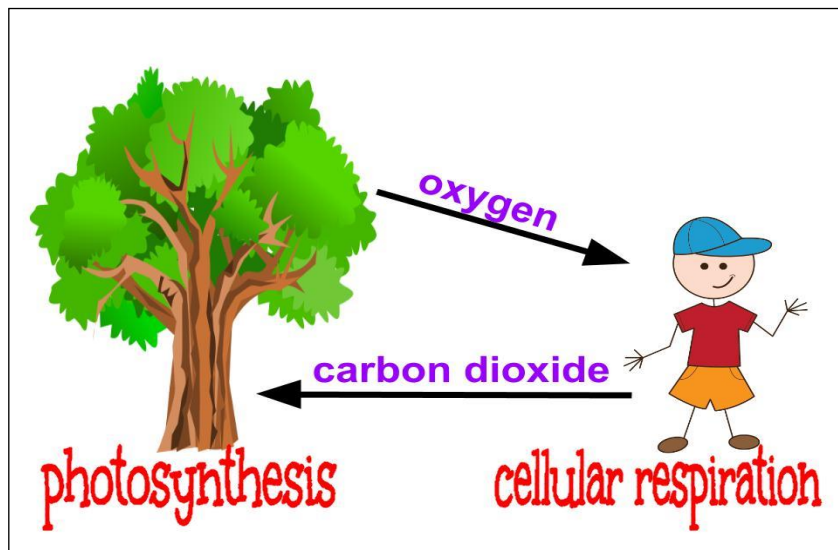
2. Cellular respiration occurs mostly in plant's nucleus.

This statement is _____ because _____



Apply Concepts

1. Explain how photosynthesis and cellular respiration work together to give plants energy.



Name: _____

Date: ___/___/___

Lesson 2: How Do Organisms Interact in Ecosystem? (use with pages 158-165)



Words to Know: Write the word next to the description it matches.

consumer	decomposer	predator	prey	producer
----------	------------	----------	------	----------

_____ 1. Is an organism that gets energy by breaking down wastes and dead organisms.

_____ 2. Is an organism that cannot make its own food.

_____ 3. Is an organism that is eaten by another organism.

_____ 4. Is an organism that makes its own organism for energy.

_____ 5. Is a consumer that hunts and eats another animals to get energy.



True or False: Write T if the statement is correct and F if not.

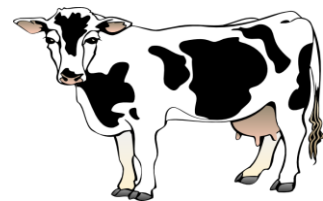
_____ 1. Plants make their own food, so they are called **consumers**.

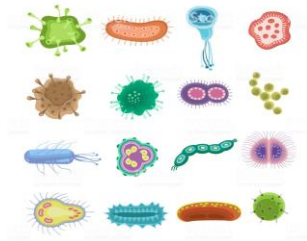
_____ 2. Omnivores eat **both plants and animals**.

_____ 3. Scavengers **feed on dead animals** like vultures and hyenas.



Label each organism as a producer, consumer, or decomposer.





[Empty dashed box for labeling]

[Empty dashed box for labeling]

[Empty dashed box for labeling]



Apply Concepts

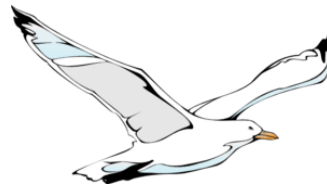
1. Put these organisms in order according to how energy moves between them in the food chain: **PLANT, SNAIL, SEA GULL, CRAB**. Describe the role of each organism in the food chain.



Plant



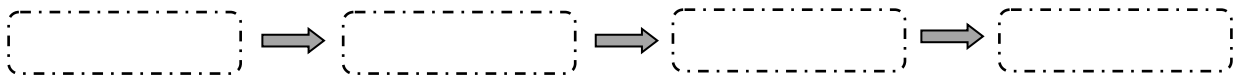
Snail



Seagull



Crab



Organism	Role in the Food Chain
Crab	
Plant	
Sea gull	
Snail	

Name: _____

Date: ___/___/___

Lesson 3: How Do Ecosystems Change? (use with pages 166-173)



Words to Know: Write the word next to the description it matches.

<i>competition</i>	<i>environment</i>	<i>resources</i>
--------------------	--------------------	------------------

- _____ 1. Refers to all the conditions surrounding an organism.
- _____ 2. Is the struggle of organisms for the same limited resources.
- _____ 3. Are available supplies of food, water, sunlight and space in an environment.



True or False: Write T if the statement is correct and F if not.

- _____ 1. Organisms themselves **may alter their environment** as they feed, grow and build their houses.
- _____ 2. Weathering and season changes **are fast environmental changes**.
- _____ 3. Rapid changes may force species to leave the area because the resources they need are **no longer available**.



Tell if statement is TRUE or FALSE. Explain your choice.

1. A disease that wiped out the rabbit population in an environment would affect the coyote population in the same environment.

This statement is _____ because _____



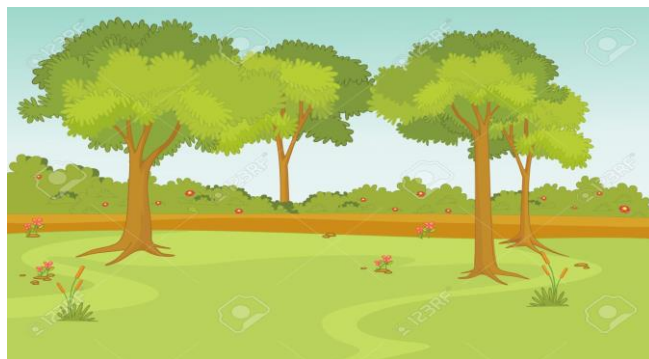
2. If beavers built dam on a stream, the kinds of plants and animals that lived around the stream would not be affected.

This statement is _____ because _____



Apply Concepts

1. How would clearing a forest to plant corn affect an environment?



Name: _____

Date: ___/___/___

Lesson 4: How Do Humans Impact Ecosystems? (use with pages 175-177)



Words to Know: Write the word next to the description it matches.

<i>conservation</i>	<i>nonnative species</i>	<i>pollution</i>
---------------------	--------------------------	------------------

- _____ 1. Is any substance that damages the environment.
- _____ 2. Is an attempt to preserve or protect the environment from any harmful changes.
- _____ 3. Are new plants and animals that people may bring in an ecosystem.



True or False: Write T if the statement is correct and F if not.

- _____ 1. Changing the environment upset the balance in ecosystem.
- _____ 2. Introduction of nonnative species will not change the balance in the ecosystem.
- _____ 3. Proper regulations implemented by the government is one best way to conserve the environment.



Tell if statement is TRUE or FALSE. Explain your choice.

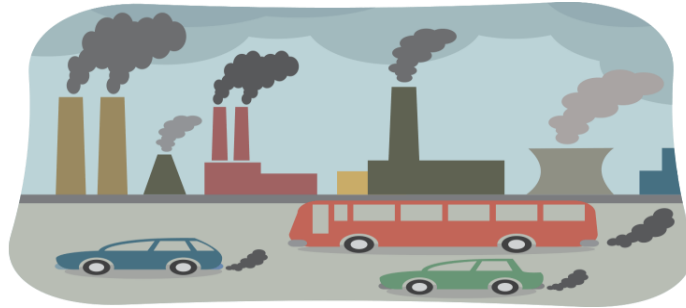
1. Nonnative species can harm some populations in an ecosystem.



This statement is _____ because _____

2. Cars and factories cause pollution.

This statement is _____ because _____



Apply Concepts

1. List and describe three (3) ways that human can change the ecosystem and three (3) ways that human can help protect the environment.



Name: _____

Date: ___/___/___

Lesson 2: What are the Spheres of Earth? (use with pages 210-215)



Words to know: Write the word next to the description it matches.

<i>atmosphere</i>	<i>hydrosphere</i>	<i>lithosphere</i>
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- _____ 1. All the waters of Earth.
- _____ 2. The solid, rocky layer of Earth.
- _____ 3. The mixture of water vapor and other gases, as well as particles of matter, that surrounds Earth's surface.



TRUE or FALSE: Write *T* if the statement is correct and *F* if not.

- _____ 1. **Nitrogen and oxygen** are the main gases in the atmosphere.
- _____ 2. Rivers, lakes, glaciers and oceans are part of the **lithosphere**.
- _____ 3. Living things can be found **in the biosphere**.



Explain: Tell if each statement is true or false. Explain your choice.

1. The hydrosphere is made up of mostly fresh water.

This statement is _____ because _____

2. Earth's spheres do not interact with one another.

This statement is _____ because _____



Apply concepts

1. Explain how each of Earth's four spheres contributes to the existence of life.



Name: _____

Date: ___/___/___

Lesson 3: What Is Weather? (use with pages 216-223)



Words to know: Write the word next to the description it matches.

barometric pressure	humidity	weather
---------------------	----------	---------

_____ 1. The pushing force of the atmosphere.

_____ 2. The amount of water vapor in the air.

_____ 3. The state of the atmosphere.



TRUE or FALSE: Write T if the statement is correct and F if not.

_____ 1. **Doctors** can study and predict the weather.

_____ 2. Air is a mixture of **invisible gases**.

_____ 3. Wind speed and direction **do not affect** weather.



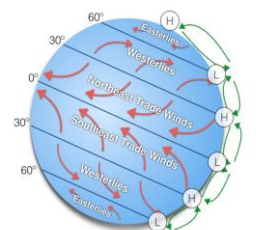
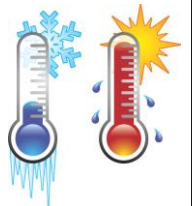
Explain: Tell if each statement is true or false. Explain your choice.

1. Cool air is heavier than warm air.

This statement is _____ because _____

2. A northerly wind comes from the south and moves toward the north.

This statement is _____ because _____





Apply concepts

1. Suppose a group of friends plan to climb this mountain. What should they expect to happen to the air pressure as they moves from the base of the mountain to the top of the mountain? Explain your answer.



Name: _____

Date: ___/___/___

Lesson 5: What Is Climate? (use with pages 231-235)



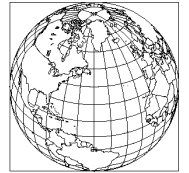
Words to know: Write the word next to the description it matches.

<i>climate</i>	<i>elevation</i>	<i>latitude</i>
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_____ 1. The height above sea level.

_____ 2. The weather patterns over a long time.

_____ 3. A measure of how far a place is from the equator.

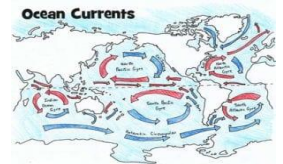


TRUE or FALSE: Write T if the statement is correct and F if not.

_____ 1. Sequoias **are able to live** for thousands of years.

_____ 2. There are **three major zones** of climate according to latitude.

_____ 3. Ocean currents can make a **climate warmer**.



Explain: Tell if each statement is true or false. Explain your choice.

1. Temperatures in temperate zones remain steady year round.

This statement is _____ because _____

2. It is cooler at the top of a mountain than at the bottom.

This statement is _____ because _____





Apply concepts

1. Can you learn what the climate is like in another state by checking the daily weather forecast? Why or why not?



Name: _____

Date: ___/___/___

Lesson 1: How Does Earth Move? (use with pages 264-269)



Words to know: Write the word next to the description it matches.

axis	revolution	rotation
------	------------	----------

- _____ 1. One full orbit of an object around another object.
- _____ 2. An imaginary line around which a planet spins.
- _____ 3. One whole spin of an object around its axis.



TRUE or FALSE: Write T if the statement is correct and F if not.



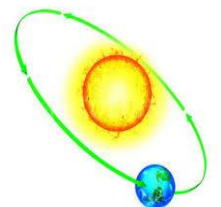
- _____ 1. Earth is the center of the universe.
- _____ 2. One rotation of the earth is what we call **a year**.
- _____ 3. The number of daylight hours **change** as the season change.



Explain: Tell if each statement is true or false. Explain your choice.

1. Earth orbits the sun in a circular pattern.

This statement is _____ because _____



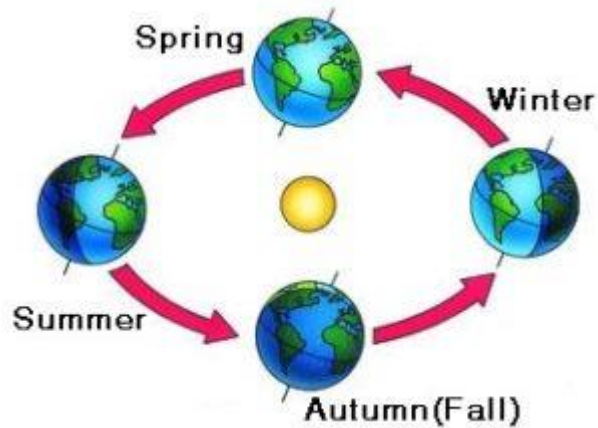
2. During the day, the sun appears to move across the sky because of Earth's revolution.

This statement is _____ because _____



Apply concepts

1. Explain what causes Earth's seasons, even though Earth is always tilted the same way during its revolution around the sun.



Name: _____

Date: ___/___/___

Lesson 2: What is a Star? (use with pages 270-275)



Words to know: Write the word next to the description it matches.

<i>constellation</i>	<i>solar flare</i>	<i>sunspots</i>
----------------------	--------------------	-----------------

- _____ 1. An explosive eruption of waves and particles into space.
- _____ 2. A group of stars that form a pattern.
- _____ 3. Dark spots that move on the face of the sun.



TRUE or FALSE: Write T if the statement is correct and F if not.



- _____ 1. Stars are **gigantic balls** of very hot gases.
- _____ 2. There are **three types** of eruptions taking place on the sun.
- _____ 3. Stars are **always** in the same place.



Explain. Tell if each statement is true or false. Explain your choice.



1. The sun is one of the largest stars in the galaxy.

This statement is _____ because _____

2. Polaris does not seem to move as Earth rotates.

This statement is _____ because _____





Apply concepts

1. If you look at a star at 7 p.m. and again at 9 p.m., will it be in the same spot? Explain.



Name: _____

Date: ___/___/___

Lesson 3: What are the Inner Planets? (use with pages 277-283)



Words to know: Write the word next to the description it matches.

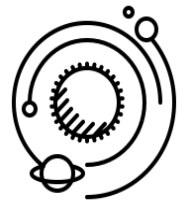
moon	orbit	planet
------	-------	--------

- _____ 1. A large, round object that revolves around a star and has cleared the region around its orbit.
- _____ 2. A natural object that revolves around a planet.
- _____ 3. The four closest planets to the sun.



TRUE or FALSE: Write T if the statement is correct and F if not.

- _____ 1. There are **10 planets** revolving around the sun.
- _____ 2. Objects in the solar system **do not stay** in their orbits.
- _____ 3. Venus is the **fourth planet** in the solar system.



Explain: Tell if each statement is true or false. Explain your choice.

1. The force of Earth's gravity keeps Earth in its orbit around the sun.

This statement is _____ because _____



Apply concepts: Answer the questions below.



1. How is Mercury different from the other inner planets?

2. *What causes Venus to be one of the brightest objects in the night sky?*

3. *Enumerate the 8 planets starting nearest from the Sun.*

1. _____

5. _____

2. _____

6. _____

3. _____

7. _____

4. _____

8. _____



Name: _____

Date: ___/___/___

Lesson 4: What are Outer Planets? (use with pages 284-289)



Words to know: Write the word next to the description it matches.

Neptune	outer planets	Saturn
---------	---------------	--------

- _____ 1. The eighth planet from the sun that is the smallest of the gas giants.
- _____ 2. The four planets in our solar system beyond Mars.
- _____ 3. The sixth planet from the sun that has very large rings.



TRUE or FALSE: Write T if the statement is correct and F if not.



- _____ 1. Jupiter has only one moon.
- _____ 2. Uranus rotates to its side.
- _____ 3. Several probes have been sent to explore the outer planets.



Explain: Tell if each statement is true or false. Explain your choice.

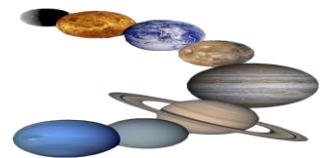
1. Saturn is the only planet that has rings that orbit it.

This statement is _____ because _____

2. Jupiter has a longer day than Earth.

This statement is _____

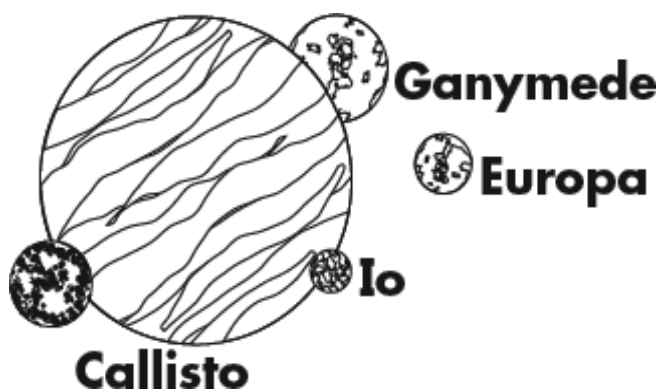
because _____





Apply concepts

1. Study the picture. Which planet is shown? Describe three characteristics of this planet.



Name: _____

Date: ___/___/___

Lesson 5: What Are Asteroids, Meteors, Comets And Moons? (use with pages 291-295)



Words to know: Write the word next to the description it matches.

asteroid	comet	dwarf planets
----------	-------	---------------

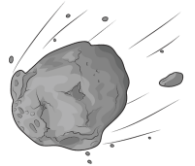
_____ 1. A large, round object that revolves around the sun but has not cleared the region around its orbit.

_____ 2. A frozen mass of different types of ice and dust orbiting the sun.

_____ 3. A rocky mass up to several hundred kilometers wide that revolves around the sun.



TRUE or FALSE: Write T if the statement is correct and F if not.



_____ 1. Earth **cannot be hit** by an asteroid.

_____ 2. A meteor forms when a **meteoroid hits Earth's atmosphere**.

_____ 3. Charon **was the first moon of Pluto** to be discovered.



Explain: Tell if each statement is true or false. Explain your choice.

1. A meteor shower can happen when a meteor passes through the orbit of a comet.

This statement is _____ because _____

2. Unlike planets, a dwarf planet cannot have moons.

This statement is _____ because _____





Apply concepts

1. *What makes an asteroid different from a dwarf planet?*

