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System Solar The about Worksheet الملف

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Name: _____ Class: IV Section: _____

Subject: Science

Topic: Earth and Beyond

Learning Objective: Students will reflect their understanding about Earth's Movement and space

1. Scientists study a great big space that includes **EVERYTHING**. That space is called:

- _____ a. our country _____ c.. our Universe
 _____ b. our continent _____ d. our Solar System

2. We live on Earth which is a

- _____ a. a planet _____ c.. a galaxy
 _____ b. a star _____ d. a universe

3. Earth is part of

- a. the Solar System
 b. the Universe
 c. both the Solar System and the Universe

4. Classify the following as **Matter** or **Energy**. Remember **matter** is the stuff the Universe is made of and **energy** is what makes things (matter) move or change.

Planets

Air

Electricity

Animals

Plants

Wood

Heat

Water

Iron

Rocks

Plastic

Rubber

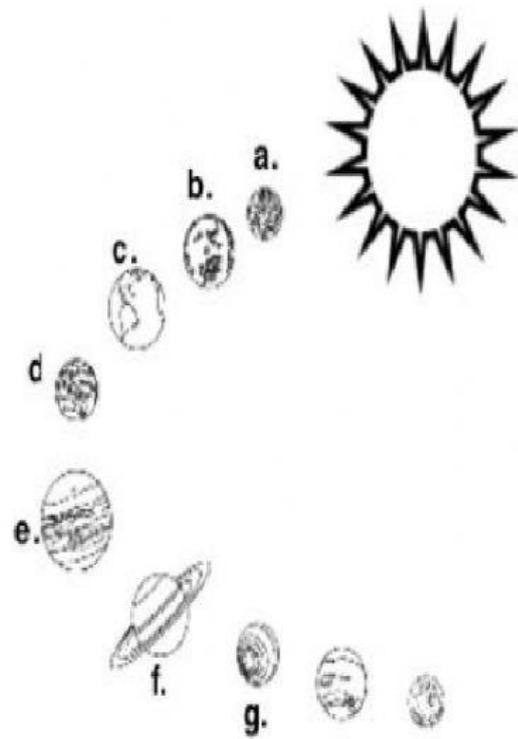
Light

MATTER		ENERGY	
1. _____	6. _____	1. _____	
2. _____	7. _____	2. _____	
3. _____	8. _____	3. _____	
4. _____	9. _____		
5. _____	10. _____		

5. The object in the center of our solar system is
 a. the Earth c. the Sun
 b. the Moon d. The Milky Way
- 6.. Put a check the objects that revolve (move) around a star such as our Sun.
 _____ a. planets
 _____ b. asteroids
 _____ c. galaxies
 _____ d. comets
 _____ e. black holes
 _____ f. meteoroids
- 7.. We say the planets revolve or _____ around the Sun
 a. rotate b. orbit c. jump d. drive
- 8.. Although the picture below does not accurately represent the sizes of the planets in our solar system or their distances from the Sun , it does show them in correct order. Write the correct name of each planet beside each letter.

Earth, Uranus, Mercury,
Pluto, Jupiter, Mars,
Venus, Neptune, Saturn

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____
- f. _____
- g. _____
- h. _____
- i. _____

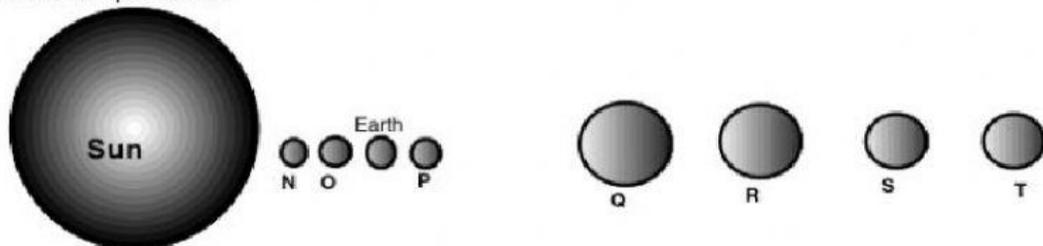


- 9.. All these planets
 a. are made of rock
 b. give off light and heat
 c. revolve around the Sun
 d. stay in a line as they move

- 10.. The planet closest to the Sun is
 a. Mercury b. Venus c. Mars d. Jupiter

- 11.. The planet between Jupiter and and Uranus is
 a. Earth b. Saturn c. Neptune d. Mars

- 12.. Use the diagram below of the Sun and the planets in the Solar System to answer questions



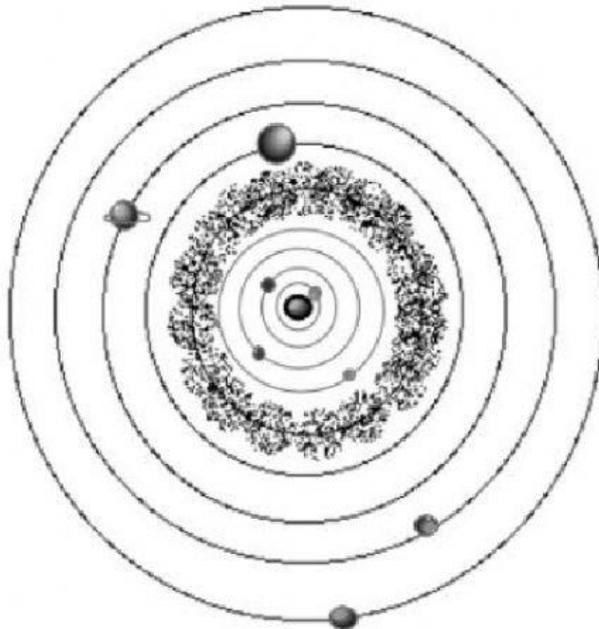
- 13.. in this diagram of the Sun and the planets in the Solar System, which planet would the letter **P** represent?

- a. Mercury b. Venus c. Mars d. Jupiter

- 14.. in this diagram of the Sun and planets in the Solar System, which planet would the letter **S** represent?

- a. Mars. b. Saturn c. Uranus d. Neptune

15. Below is a drawing of the Sun and the planets in the Solar System.. Put a **T** in the blank if the statement describes something that is correct about this model and an **F** if the statement says something that is incorrect about the model



_____ a. all the main planets in the Solar System are shown. (Pluto is considered a dwarf planet, not a main planet)

_____ b. the size of the Sun relative to the planets.

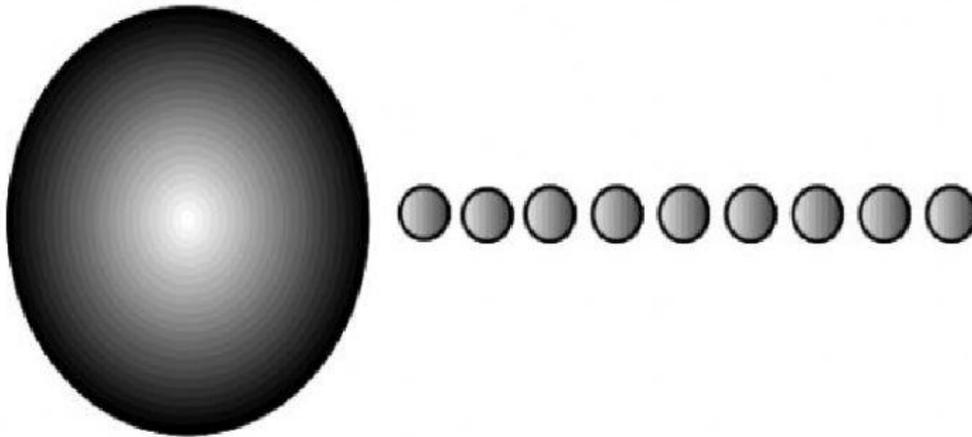
_____ c. the planets are shown in the correct order

_____ d. the relative distance between the planets

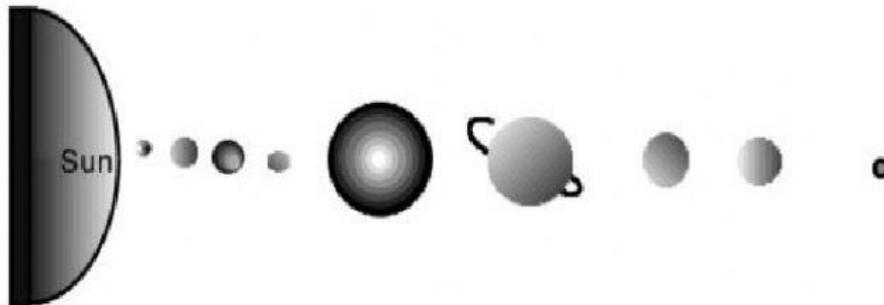
_____ e. where the asteroid belt is shown

_____ f. the planets in their orbits are usually lined up as shown

Myra made a model of the Solar System using a large beach ball for the Sun and golf balls for the planets.



16. How could Myra improve her model?
- Use larger spheres to represent the larger planets, like the gas giants
 - Adjust the space between the spheres to better represent the distance between the planets
 - Make the sun much smaller relative to the planets.
 - Both a and b.



17. Improve this model of the solar system shown above by placing the word "should" or "should not" in the blank beside each of the following statements

- ___ a. the planets **should/should not** be different sizes as shown here.
- ___ b. the planets **should/should not** all be lined up in a straight line coming out from the sun
- ___ c. Jupiter, Saturn, Neptune, Uranus and Pluto **should/should not** be spaced much further apart than shown in this model.
- ___ d. Mercury, Venus, Earth and Mars **should/should not** be fairly close to one another compared to the other planets
- ___ e. Uranus and Neptune **should/should not** be shown as very far apart.