

Name: _____ Date: _____
Period: ____

Bill Nye: Planets & Moons

1. All the planets move around the sun in the same direction: _____ (clockwise or counterclockwise).

2. The planets and the sun make up the _____ system.

3. List the planets in order:

a. Mercury

b. Venus

c. _____

d. _____

e. Jupiter

f. _____

g. Uranus

h. _____

i. Pluto (now considered a dwarf planet)

The End???????

4. What do you notice about the distances between planets as Bill Nye moves from the inner planets (Mercury, Venus, Earth, & Mars) to the outer planets (Jupiter, Saturn, Neptune, Uranus, & Pluto)?

5. There is a lot of _____ in space.

6. Why don't people normally make models of the solar system to scale like the one Bill Nye is demonstrating?

7. Pluto is _____ times farther away from the sun than our earth. Its over _____ billion kilometers from our sun.

8. The distances between the real planets in real outer space are _____.

9. How many years would it take a rocket (at a rate of 1000mph) to reach the sun from Earth? _____ How many years would it take that same rocket to reach the sun from Pluto? _____

10. A few of those bright spots in the sky are not stars. They shine only because they reflect. They are called _____.

11. There are 4 basic theories of where the moon came from: a. It was part of the _____ that broke off.

b. It was a small _____ that got trapped in the earth's

Gravitational
pull.

c. It is a whirlpool of dust and gases leftover from the making of the _____.

d. A _____ collided with Earth and pushed materials into outerspace.

12. _____ are bits of rock floating in space and are the materials that

went into forming the earth, moons, and other planets in the solar system.

13. Planets and moons shine by _____
sunlight.

14. The shape of the planetary _____ is an ellipse.

15. When the earth is farther from the sun it _____
(slows down or speeds up?). When it gets close to the sun it
_____ (slows down or speeds up?).

16. _____ between dust particles in space made all the planets end up going around the sun in the same direction.

17. _____ is called the red planet because it is covered in rust.

18. The planets _____ to the sun move about it more quickly.

19. Pluto makes the trip around the sun in
_____ years.

20. Draw a picture of a main idea from the video in the box on the side.

21. Using the video worksheet, write a 2-3 sentences summary on the planets and moons of the solar system.
