ESS 100 (Stapleton) Name: _____

Quiz #1: Universe Structure and Objects orbiting the Sun (Quizlets 1 and 2)

Matching:

1. _____ All space and everything in it.
2. _____ The distance light travels in one second [about 186,000 miles].
3. _____ The distance from the Sun to the Earth
4. _____ The Sun and everything that orbits the Sun (planets, comets, and asteroids/meteoroids)
5. _____ The part of the solar system that is the farthest from the Sun
6. _____ The part of the solar system that is beyond the outer planets, but is <u>not</u> the farthest part of the solar system from the Sun
7. _____ The place where most asteroids are found
8. _____ The distance light travels in one year
9. _____ Two other names that the inner planets are called
10. _____ Two other names that the outer planets are called
11. _____ A rock that orbits the Sun and is pebble sized or smaller
12. _____ A meteor after it has hit the Earth and is resting somewhere on Earth
13. _____ A rock that orbits the Sun and is larger than a pebble but smaller than a planet
14. _____ An asteroid or meteoroid that it is in the process of falling through the Earth's atmosphere from outer space (a "shooting star")

A. The Solar System
B. The Universe
C. Astronomical Unit (AU)
D. Gas Giants or Jovian
E. Terrestrial or Rocky
F. Oort Cloud
G. Between the orbits of Mars and Jupiter
H. Kuiper Belt
I. Light Year
J. Light Second
K. Asteroid
L. Meteoroid
M. Meteor
N. Meteorite

15. Where is the Asteroid Belt?
    A. Beyond the Outer Planets
    B. Between the orbits of Mars and Jupiter
    C. Between the Sun and Mercury
    D. Inside the Oort Cloud

16. Why do Meteors give off light?
    A. Their light is a reflection of sunlight.
    B. Their light is produced by friction with the atmosphere
    C. Their light is produced by a chemical reaction.
    D. Their light is produced by compression (squeezing) of the air in front of them.

17. List the Inner Planets in order of their distance from the Sun:

18. List the Outer Planets in order of their distance from the Sun:

19. List 3 ways that the Outer Planets are different from the Inner Planets (not including that they are farther from the Sun).

If you lost points, you can have one point back for each correct Bonus. If this puts you over 100%, your score is capped at approximately 101%.

Bonus 1: What is the approximate distance to the Sun, in light minutes?

Bonus 2: Why isn't Pluto considered to be a planet? What requirement does it not meet?

Bonus 3: How big is the largest asteroid?

Bonus 4: Write the return address of this classroom, as you would need to write it on a letter to a distant part of the Universe. You can start after "2 Educational Drive." For credit you must get 6 of the remaining 8 lines correct.