

Item #: \_\_\_\_\_

Name: Key

Describe each:

Universe  
'everything'  
never-ending  
all galaxies

Galaxy  
group of billions  
of stars

Solar System  
1 star and planets/  
other space objects

Astronauts are considered to be floating due to the feeling of weightlessness.

Describe a satellite-

a smaller object orbiting a larger object ex. moon orbiting EARTH

Describe a NEO-

asteroid or comet that crosses Earth's orbit

Describe a "lander" mission:

lands on surface, takes samples

A flyby mission can receive information from more than one planet. True/False?

Sun is mostly made up of hydrogen gas.

Sun is considered to be a medium-sized star.

What part of the Sun can be seen during a TOTAL Solar Eclipse? Corona

What is the part of the Sun (visible part of the Sun) we saw with Mr. Randall? photosphere

Describe a sunspot.

dim, dark cooler spot on Sun

Describe a solar flare.

an eruption from sun

Describe what causes an aurora (Northern/Southern lights):

Solar winds hit Earth's magnetosphere

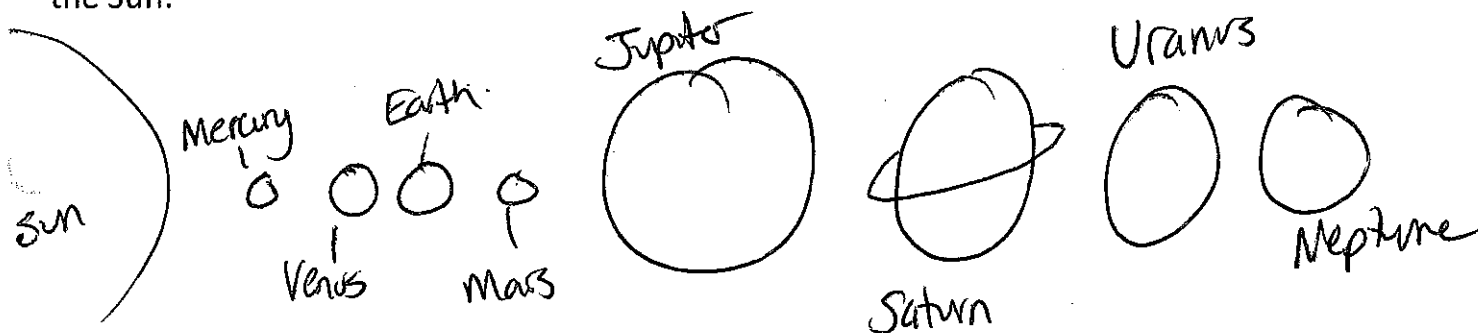
What causes the space images to be distorted here on Earth?

the atmosphere

Describe an Earth-like planet:

- ① atmosphere
- ② "Goldilocks" zone - not too far/not too close
- ③ liquid water

Sketch the planet's size (using different size circles) and list the planets in order starting from the Sun:



Give a BRIEF purpose for each mission:

1) Hubble

- Using visible light - takes pictures of SS + galaxy

2) Kepler

Searches for Earth-like planets

3) Spitzer

uses infrared rays to detect objects in S.S/galaxy

4) Fermi

uses gamma rays to search/discover universe/galaxy/SS

5) Chandra

uses X-rays to discover universe

6) ISS (International Space Station)

performs experiments in weightless environment

Extra Practice/Review:

Complete the diagram below and label each moon phase:

