

# LESSON 9.4 Dwarf Planets and Other Objects

As you are reading section 9.4 complete the reading guide below.

## Describe

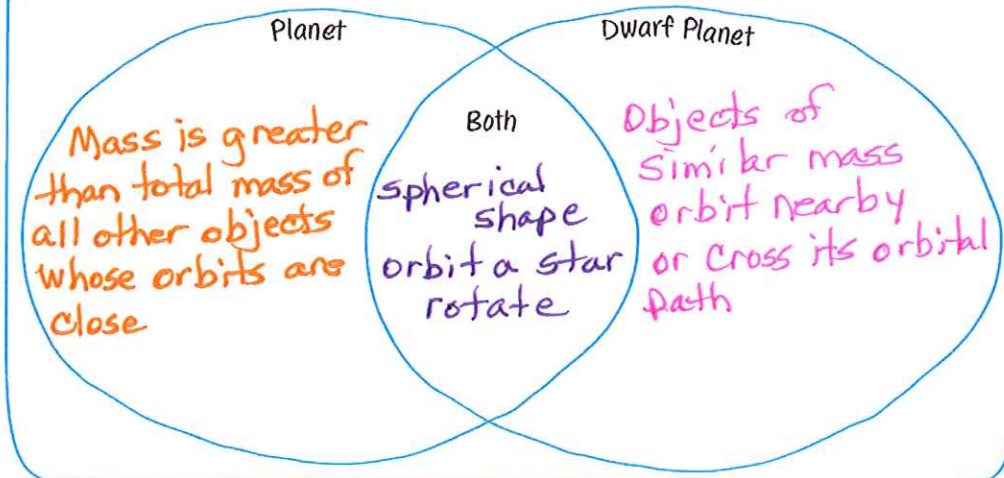
1. How do dwarf planets compare in size to the Moon?

Dwarf planets are smaller than the Moon.



## Distinguish

2. Show the similarities and differences between planets and dwarf planets.



## Determine

3. Which dwarf planet orbits closest to Earth?

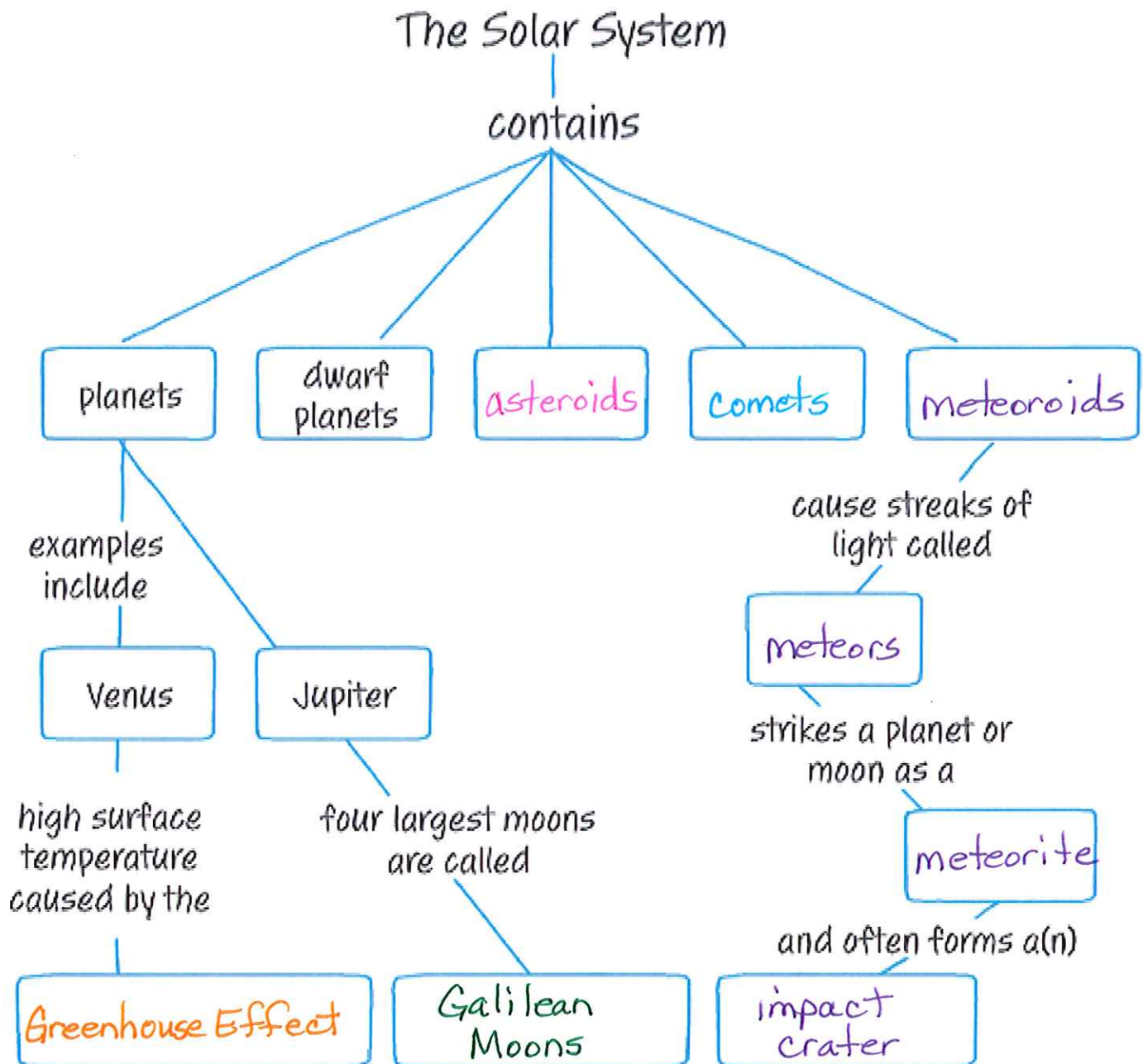
Ceres  
(in the asteroid belt)

## Analyze

4. Which attribute is more important in classifying a solar system object: its size or composition? Explain.

Most objects in the solar system are made of similar materials. Therefore, classification is determined more by size than composition.

Complete the concept map below using this chapter's vocabulary terms. **TEKS 6.11(A)**





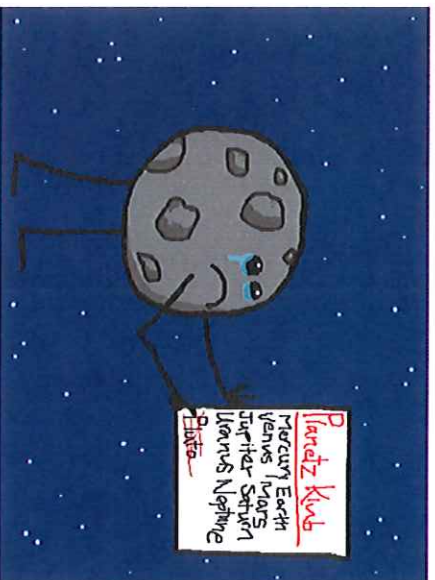
# Dwarf Planets & Other Objects

## Across

4. chunks of rock and ice that never clumped together
5. a streak of light in Earth's atmosphere made by a glowing meteoroid
7. the smallest dwarf planet and is found in the asteroid belt
8. a meteoroid that strikes a planet or a moon
10. The region beyond Neptune that holds many dwarf planets is the \_\_\_\_ Belt.
11. like planets, dwarf planets orbit this
12. like planets, dwarf planets are in this shape
14. The bright tail of a comet occurs because the comet absorbs this type of energy
15. A \_\_\_\_-period comet takes more than 200 Earth years to orbit the sun.
16. Because dwarf planets are so far from Earth, scientists are unable to get detailed \_\_\_\_ of them.
17. A \_\_\_\_-period comet takes less than 200 Earth years to orbit the Sun.

## Down

1. a round depression formed on the surface of a planet, moon or other space object by the impact of a meteorite
2. The asteroid belt is between the orbits of Mars and \_\_\_\_.
3. mixtures of rock, ice and dust that are loosely held together and orbit the sun in long elliptical orbits
6. Unlike planets, dwarf planets have objects similar in mass \_\_\_\_ near them or crossing their paths.
8. small, rocky particle that moves through space
9. the largest dwarf planet
13. The largest asteroid is named \_\_\_\_.
14. Eris is \_\_\_\_ times farther from the sun than Pluto is.



16	I	M	A	G	E	S	E

14	T	H	E	R	M	A	L

10	K	U	I	P	E	R	P

8	M	E	T	E	O	R	I

11	S	U	N	G	I	R	E

12	S	P	H	E	R	E	E

13	P	L	O	N	G	I	R

15	L	O	N	G	I	R	E

17	S	H	O	R	T	I	S

1	I	M	A	P	C	T	C

4	A	S	T	E	R	O	I

2	U	P	I	C	M	O	I

7	C	E	R	E	S	I	S

5	M	E	T	E	O	R	R

6	O	T	E	R	O	R	R

3	C	M	O	I	D	S	S

