

**NAME** - \_\_\_\_\_

**DATE** - \_\_\_\_\_

**DIRECTIONS: WATCH THE VIDEO TO COMPLETE THE WORKSHEET. QUESTIONS GO IN ORDER.**

- 1) What are comets made of? \_\_\_\_\_
- 2) How long might it take a comet to travel in an orbit around the sun? \_\_\_\_\_
- 3) What force keeps all objects in space traveling in elliptical orbits? \_\_\_\_\_
- 4) Scientists photographed a string of comets crashing into which planet?

\_\_\_\_\_

How big were the craters left by these comets? \_\_\_\_\_

\_\_\_\_\_

- 5) What are meteoroids made of?

1 - \_\_\_\_\_ 2 - \_\_\_\_\_

- 6) Explain one fact about meteorites. \_\_\_\_\_

- 7) What planet did the micro-meteorite that the students studied come from?

- 8) What were the main two gases formed after the Big Bang?

1 - \_\_\_\_\_ 2 - \_\_\_\_\_

- 9) What science term describes when a star explodes?

- 10) How many kilometers of air surround our planet? \_\_\_\_\_

- 11) Name two places on Earth where meteorite craters exist,

1 - \_\_\_\_\_ 2 - \_\_\_\_\_

- 2) Explain one fact about the meteor crater that Bill visits. \_\_\_\_\_

- 13) What is the scientific terms to describe a comet's tail?

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14) **THE BILL NYE EPISODE SONG**. Complete the lyrics by adding the key science term.

“There are so many comets and meteors in the \_\_\_\_\_.”

“They start to burn if they hit the Earth’s \_\_\_\_\_.”

“They’re in \_\_\_\_\_ around the \_\_\_\_\_.”

### **FOLLOW-UP QUESTIONS**

15) Describe the difference between a meteoroid, meteor, and meteorite.

Meteoroid - \_\_\_\_\_

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Meteor - \_\_\_\_\_

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Meteorite - \_\_\_\_\_

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16) Your friend tells you that they found a piece of a comet that fell from space.  
Explain why this is impossible.

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17) Circle either **TRUE** or **FALSE** for the following statements.

- |             |              |   |
|-------------|--------------|---|
| <b>TRUE</b> | <b>FALSE</b> | <b>Earth has more craters than the moon.</b>        |
| <b>TRUE</b> | <b>FALSE</b> | <b>Comets travel in an elliptical orbit.</b>        |
| <b>TRUE</b> | <b>FALSE</b> | <b>Meteors orbit the sun closer than comets do.</b> |