Name:_____

End-of-Unit Astronomy Assessment

Please use complete sentences to answer all questions. You may use examples from class and/or drawings to support your answers.

Part 1:

1. Tom, Michael, and Katie stared up at the sky at 8:00 pm on a clear, moonless winter night. Katie said that if they looked up at the sky at the same time six months from now, the constellations would be in an entirely different part of the sky. Explain why Katie is correct.

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2. Tom said that the planets appear to be part of different constellations throughout the year. Explain why he is correct.

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Part 2:

3. As Katie, Tom, and Michael gazed at the stars, they commented on the sizes of stars. Tom stated that some stars are bigger than the sun. Katie said that was impossible because the stars are so small in the sky. Who is correct and why?

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Part 3:

4. After a couple of hours outside staring at the night sky. Katie said, "I just noticed that the stars seem to be moving across the sky the same way the sun and the moon move across the sky."
    a. In what direction do Michael, Tom, and Katie see the stars move? Fill in the blanks below:
    The stars appear to move from _____ to _____.

    b. Explain why the stars appear to move across the sky.

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5. Katie asked Michael and Tom what causes day and night. How would you answer her question?

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Part 4:

6. Katie, Michael, and Tom disagree about what orbits the sun **AND** what orbits the earth. Please help them settle their disagreement by sharing what you know.

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Part 5:

7. Why do scientists use models?

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8. Whenever you use models, what are the <u>three</u> things you should always consider?

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9. Which of the following is <u>not</u> a model?

a. diagrams of planets orbiting the sun
b. SkyCaps
c. Solar System Orbital Map
d. telescope
e. maps

Explain your answer.

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