

INVESTIGATION 2 I-CHECK

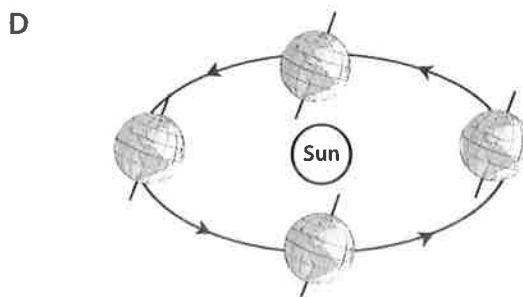
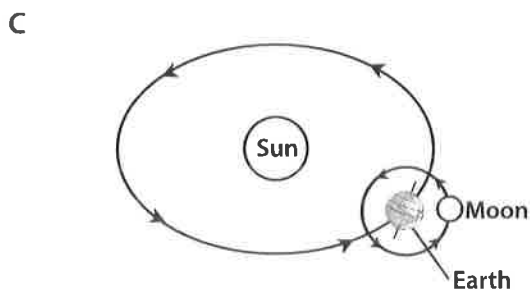
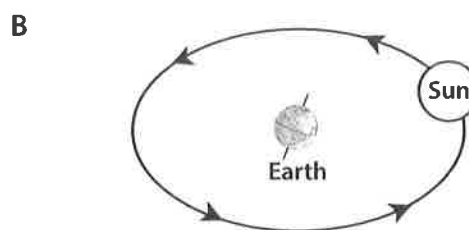
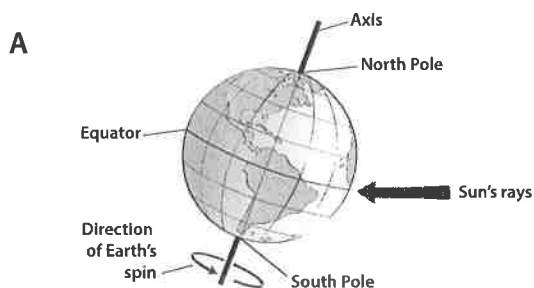
EARTH AND SUN

Name _____

Date _____

1. Which graphical display best explains Earth's rotation? _____

Which graphical display best explains Earth's revolution? _____



2. Explain why the Sun, the Moon, and stars all appear to move across the sky each day.

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3. Students observed the shape of the Moon with the same amount of time between each observation. They drew this sequence.



- a. How long did it take them to record this sequence?

(Mark the one best answer.)

- ☐ A About 2 days
- ☐ B About 2 weeks
- ☐ C About 2 months
- ☐ D About 2 years

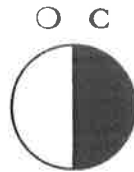
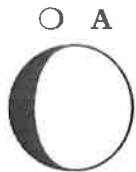
- b. Which motion best explains this change? (Complete the sentence.)

As the _____, different portions of the Moon are visible.

(Mark the one best answer.)

- ☐ F Moon revolves around the Sun
- ☐ G Moon rotates on its axis
- ☐ H Sun rotates on its axis
- ☐ J Moon revolves around Earth

- c. If the students made another observation, which picture represents what they would see?



- (Mark the one best answer.)

- Write an argument that student A can make to either support or challenge student B.

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6. Write **T** if the sentence is true. Write **F** if the sentence is false.

_____ Even though the Sun gives off its own light, we can see it only during the day because the Moon blocks its light at night.

_____ We can see the Moon only at night because it is on the other side of the Sun during the day.

_____ The Moon is easier to see during the night because that is when Earth is behind the Sun.

_____ The Sun is brighter than other stars because it is so much bigger.

7. a. If you represented Earth with a ball that is 8 centimeters (cm) in diameter, how big should a ball be to represent the Moon in the same model?

(Mark the one best answer.)

☐ **A** 2 cm

☐ **B** 4 cm

☐ **C** 6 cm

☐ **D** 8 cm

- b. How far away should you position the Moon ball from the Earth ball in the model described above?

(Mark the one best answer.)

☐ **F** 800 cm (8 m)

☐ **G** 16 cm (0.16 m)

☐ **H** 120 cm (1.2 m)

☐ **J** 240 cm (2.4 m)

Name _____

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8. Draw and label a diagram and write a short paragraph to explain why we see different stars in the winter sky from those we see in the summer sky.