

Name: _____

Space Systems: Patterns & Cycles

1. Julie drew this diagram of the moon's phases. Help her to finish! Color the dark side of the moon for the Quarter Moon, New Moon, and Last Quarter Moon.



2. Is the moon smaller than the Earth, the same size as the Earth or larger than the Earth?

3. During which phase do we see the whole moon illuminated?

- A. New moon
- B. Crescent moon
- C. Full moon

4. What is the sun? What does it give us?

5. Jake watches his shadow at 12:00. If he goes back outside at 2: 00, will his shadow look exactly the same? Why?

6. Jackie is wondering why she can see stars at night but not during the day. Can you explain to her why we cannot see the stars during the day?

7. Is it daytime or nighttime for Bobby and Sue? _____



8. Is it daytime or nighttime for Jason and Sarah? _____



9. Match the season to its picture.

_____ Winter

_____ Summer

_____ Spring

_____ Fall

a.



b.



c.



d.



10, Circle the season that has longer days with more daylight outside.

a.



b.



11. Emma is jumping in a leaf pile during the fall. What season will she have next?

a.



b.



12. How do you know what season comes next?

13. Draw arrows to show the direction we see the sun move through the sky. Remember, the sun isn't actually moving, we are! Label in which direction the sun seems to rise and set.

