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| What happens as the Earth revolves around the Sun?  What causes the seasons to change?  Why does the moon have different phases?  How long does it take the moon to complete one phase cycle?  Why does the same side of the moon always face Earth?  How does the relative location of the sun, moon, and Earth affect the tides?  What happens during a lunar eclipse?  What happens during a solar eclipse? |
| What types of celestial objects are found in our solar system?  What are the characteristics of Earth that allow it to support life? |
| How do telescopes aid scientists in the field of astronomy?  What instruments do scientists use to study the universe?  Where have humans traveled in space and how did they get there?  Where have we sent space probes? |