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| Why does the moon have craters? | There is no atmosphere for space debris to burn up in. This also means that no weathering and erosion can occur. |
| What causes the phases of the moon? | As the moon revolves around Earth we see different amounts of the illuminated side of the moon. |
| How long does one **revolution** of the moon take? | 27.3 days |
| How long does one **rotation** of the moon take? | 27 days 8 hours |
| Why do we only see one side of the moon? | One moon revolution = one moon rotation |
| What is waxing? | The part of the illuminated half of the moon that you see is getting larger. You will see the right side of the moon. |
| What is waning? | The part of the illuminated half of the moon that you see is getting smaller. You will see the left side of the moon. |
| Why can we see the moon? | We see the moon because the moon reflects the sunlight. The moon does NOT create its own light. |
| New Moon | The sunlit side of the moon is not facing earth. The dark half of the moon is facing Earth. We do not see a moon. |
| Waxing Crescent | You see less than ¼ of the lit half of the moon. It will be the right side. |
| First Quarter | You see the right ½ of the sunlit side of the moon. |
| Waxing Gibbous | You see over ¾ of the lit side of the moon. It will be the right side. |
| Full Moon | You see the whole lit side of the moon. |
| Waning Gibbous | You see over ¾ of the lit side of the moon. It will be the left side. |
| Third Quarter | You see ½ of the lit side of the moon. It will be the left side. |
| Waning Crescent | You see less than ¼ of the left side of the moon. |
| New Moon | The dark half of the moon is facing earth. We are back to a new moon. |

