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Marie



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Earth's Rotation and Revolution Guided Notes

- What is rotation?
 - Earth _____ on its tilted _____
 - It takes _____ or 1 day for the Earth to complete one rotation on its axis
- What is an axis?
 - _____ line that passes through Earth's center and the North and South poles
 - Tilt of the Earth's axis is _____
- What causes day and night?
 - Earth's _____ on its axis causes day and night.
- The half of the Earth that is facing the sun is lit up. It is _____.
- The side of the Earth that is not facing the sun is in darkness. It is _____.
- The Sun rises in the _____ and sets in the _____.
- What is revolution?
 - The _____ of Earth in its _____ around the sun
 - It takes _____ or one year for the Earth to revolve around the sun
- What is an Orbit?
 - Earth's _____ as it travels _____ the _____
- What causes seasons?
 - Earth's _____
 - Earth's _____

- What are the 4 seasons?
 - _____, _____, _____, and _____
- Since our Earth is a _____, the sun's rays are received in various _____. This causes the Earth's energy to be dispersed unevenly. Some areas receive more direct sunlight than others.
- The _____ an area gets, the _____ it receives.
- For example, the Northern Hemisphere is experiencing summer when it is tilted _____ the sun. Since it is tilted towards the sun, it receives more _____ sunlight than the Southern Hemisphere. Hence, more _____.
- Direct sunlight is only found in between the _____, which is 23.5 degrees North, and the _____, which is 23.5 degrees South. This is why all _____ locations are found within these lines of latitude.
- What is a solstice?
 - When the noon _____ at either _____ degrees South or 23.5 degrees North
 - It happens 2 days out of the year
- What is the Summer Solstice?
 - When the sun is overhead at 23.5 degrees North or also called the Tropic of Cancer
 - Also known as _____
 - _____ of the axis is tilted _____ Sun

- It is summer in the _____ Hemisphere and winter in the _____ Hemisphere.
- What is the Winter Solstice?
 - When the sun is overhead at 23.5 degrees South or also called the Tropic of Capricorn.
 - Also known as the _____
 - _____ of the axis is tilted _____ the Sun.
 - It is summer in the _____ Hemisphere and winter in the Northern Hemisphere.
- What is an Equinox?
 - When the noon sun is directly overhead at the _____ .
 - This is when neither hemisphere is tilted toward the Sun.
 - _____ time of day and night.
- What is Vernal Equinox?
 - Also known as _____
 - Occurs around _____
 - Marks the start of Spring in Northern Hemisphere
- What is Autumnal Equinox?
 - Also known as _____
 - Occurs around _____
 - Marks the start of Fall for the Northern Hemisphere

Earth's Rotation and Revolution Guided Notes

- What is rotation?
 - Earth spinning on its tilted axis
 - It takes 24 hours or 1 day for the Earth to complete one rotation on its axis
- What is an axis?
 - Imaginary line that passes through Earth's center and the North and South poles
 - Tilt of the Earth's axis is 23.5 degrees
- What causes day and night?
 - Earth's rotation on its axis causes day and night.
 - The half of the Earth that is facing the sun is lit up. It is day.
 - The side of the Earth that is not facing the sun is in darkness. It is night.
 - The Sun rises in the East and sets in the West.
- What is revolution?
 - The movement of Earth in its orbit around the sun
 - It takes 365 days or one year for the Earth to revolve around the sun
- What is an Orbit?
 - Earth's path as it travels around the Sun
- What causes seasons?
 - Earth's revolution
 - Earth's tilted axis
- What are the 4 seasons?

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- Summer
- Fall
- Winter
- Since our Earth is a sphere, the sun's rays are received in various angles. This causes the Earth's energy to be dispersed unevenly. Some areas receive more direct sunlight than others.
- The more direct sunlight an area gets, the more energy it receives.
- For example, the Northern Hemisphere is experiencing summer when it is tilted towards the sun. Since it is tilted towards the sun, it receives more direct sunlight than the Southern Hemisphere. Hence, more energy.
- It may be easier to see in this image how energy is dispersed in direct and indirect light. Notice how the light energy is dispersed over a larger surface area in indirect light. Whereas the energy from the direct light is concentrated in a smaller area.
- Direct sunlight is only found in between the Tropic of Cancer, which is 23.5 degrees North, and the Tropic of Capricorn, which is 23.5 degrees South. This is why all tropical locations are found within these lines of latitude.
- What is a solstice?
 - When the noon sun is overhead at either 23.5 degrees South or 23.5 degrees North
 - It happens 2 days out of the year
- What is the Summer Solstice?

- When the sun is overhead at 23.5 degrees North or also called the Tropic of Cancer
- Also known as June Solstice
- North end of the axis is tilted toward Sun
- It is summer in the Northern Hemisphere and winter in the Southern Hemisphere.
- What is the Winter Solstice?
 - When the sun is overhead at 23.5 degrees South or also called the Tropic of Capricorn.
 - Also known as the December Solstice
 - South end of the axis is tilted toward the Sun.
 - It is summer in the Southern Hemisphere and winter in the Northern Hemisphere.
- What is an Equinox?
 - When the noon sun is directly overhead at the equator .
 - This is when neither hemisphere is tilted toward the Sun.
 - Equal time of day and night.
- What is Vernal Equinox?
 - Also known as Spring Equinox
 - Occurs around March 21
 - Marks the start of Spring in Northern Hemisphere

- What is Autumnal Equinox?
 - Also known as Fall Equinox
 - Occurs around September 23
 - Marks the start of Fall for the Northern Hemisphere