

Science Project, Wk. 13 -- Tilt (#121)

Name: _____

"While the earth remaineth, seedtime and harvest, and cold and heat, and summer and winter, and day and night shall not cease." Genesis 8:22

Purpose: To demonstrate the effect of the Earth's tilt on seasons.

Materials:

1 pencil (or long knitting needle), 1 rubber band, a 3-inch Styrofoam ball (or ball of modeling clay), a flashlight

Procedure:

- Insert the pencil through the ball.
- Place a rubber band around the center of the ball, halfway between the top and bottom.
- Hold the pencil vertically on the table, eraser-side up.
- Turn the flashlight on and darken the room.
- Place the light about 6 inches from the ball; center on the rubber band. Tilt the eraser toward the flashlight.
- Observe whether more light hits above or below the rubber band.
- Tilt the eraser away from the flashlight, which should still be about 6 inches from the ball.
- Observe whether more light hits above or below the rubber band.

Hypothesis (CIRCLE): The area above the rubber band will be brighter when the pencil eraser is tilted...



toward the light.



away from the light.



Result (CIRCLE): The area above the rubber band was brighter when the pencil eraser was tilted...



toward the light.



away from the light.



Conclusion: Seasons!

