

A. Does the sun rise at the same time for each nail? Do you get the same results as the last time? Explain. _____

B. Tell what season it is in the northern hemisphere when the North Pole is tilted toward the light. _____

C. Tell what season it is in the northern hemisphere when the North Pole is tilted away from the light. _____

Explore some more:

1. Place one of the nails near the South Pole and another near the North Pole. Leave the one at the Equator.
2. Turn the ball so the nail at the Equator is in the dark.

A. What do you notice about the nail at the North Pole? _____

What do you notice about the nail at the South Pole? _____

3. Turn the ball slowly so the nail at the Equator comes into and then goes out of the light.

B. What do you notice about the nail at the North Pole?

C. What do you notice about the nail at the South Pole?

4. Move the light source 180° , or half way around. Repeat steps 2 and 3 above.

D. Explain what happens now as you move the nail at the Equator into and out of the light.
