Does the Sun Rise in the Morning?
What causes night and day? We know that despite what our eyes seem to tell us the sun does not rise in the morning and set in the evening. Here's one way to visualize what really happens.

**What to do:** Place the unshaded lamp near the center of a darkened room. The lamp represents the sun. Turn on the lamp. Push the knitting needle through the center of the orange. The orange represents the earth.

Holding the orange by the needle, turn it counter-clockwise as though it were a top, and walk around the lamp.

**What happens:** Different parts of the turning orange are lit and warmed by the lamp.

**Why:** Obviously, the lamp was not moving— the orange was turning. And the sun does not me in the sky when it rises and down when it sets--- it is the earth that is turning. Part of the earth's surface moves toward and then away from the sun as the earth spins toward the east on its axis.

When we are on the side of earth that is in shadow, it is night. When we come back into sunlight, it is day.

The earth spins around completely every 24 hours. Because the earth turns, the sun seems to "set" as we turn away from it and "rise" as we face it again.