## Moving Shadows Discussion Questions



1. Describe what happened to the gnomon's shadow over the course of the time you observed it.

2. What time was the shadow the longest? What time was it the shortest?

3. What did the Sun do in the sky from the start to the end of your observations? Describe its movement.

4.	Which way did the gnomon's shadow move when looking south from behind your gnomon? Did it move from right to left or from left to right? Which way did the Sun seem to move?
5.	Describe the movement of the shadow and Sun in terms of the cardinal directions (north, south, east, and west).
6.	What is the relationship between the shortest shadow you observed and the position of the Sun in the sky? How does this relate to the compass directions north, south, east and west?

Thought questions for consideration as a transition to the explain experiences:

7. You may have heard that the Sun doesn't really move across the sky; rather, the Earth is spinning and making the Sun appear to move across the sky. From your viewpoint, is the Earth spinning toward the east or toward the west?

8. If you were in outer space above the North Pole looking down on the Earth, would you see Earth spinning clockwise or counterclockwise?