Earth's Rotation & Revolution: 8.1

| Where does the sun go when we can't see it? ones moving. | ! We actually are the |
|--|---------------------------------------|
| Earth spins on its, which is an imaginal rotates. When the Earth spins around on its axis | |
| Earth's rotation is what give us day and night, exside of Earth is facing the sun it isv | |
| **This changes because | · |
| At the same time that the Earth is rotating (causi | · · · · · · · · · · · · · · · · · · · |
| This takes which equals one | |
| Because the Earth is tilted, one part of Earth is This means that differer | |
| different amounts of and | · |
| This creates a pattern. When <u>you</u> are on the par sun, it is This means the S, because they are oppos | outhern Hemisphere is experiencing |
| If neither hemisphere is facing the sun it is either | or |
| If the Earth wasn't tilted, we would have | all vear long. |

Following the Sun: 8.2

Why do shadows move over time?

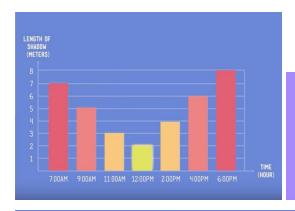
What is a shadow? It is the _______ that is created by your body blocking the sun. Your shadow is always ______ the direction the sun is to you (or another object).

Even for objects that don't move like _____ or buildings, their shadows will move because the _____.

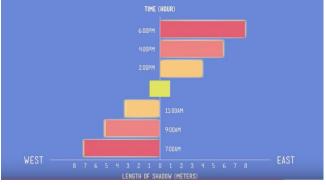
How did people in ancient civilizations use the sun to tell time? They knew that the sun followed a specific _____ each day. It always was rising in the _____ and setting in the _____.

Because the sun followed a pattern during the day, so did ______.

In the morning, shadows point to the west. They start out _____ then get _____ as we go toward noon. At _____ there is hardly any shadow. After noon the shadows start to get _____ again, but point to the east.



GRAPH 1: WHEN THE SUN IS
LOW IN THE SKY, SHADOWS
ARE LONG. WHEN IT'S HIGH IN
THE SKY, SHADOWS ARE SHORT.



GRAPH 2: WHATEVER DIRECTION
THE SUN IS IN THE SKY, THE
SHADOWS IT CREATES WILL POINT
IN THE OPPOSITE DIRECTION.