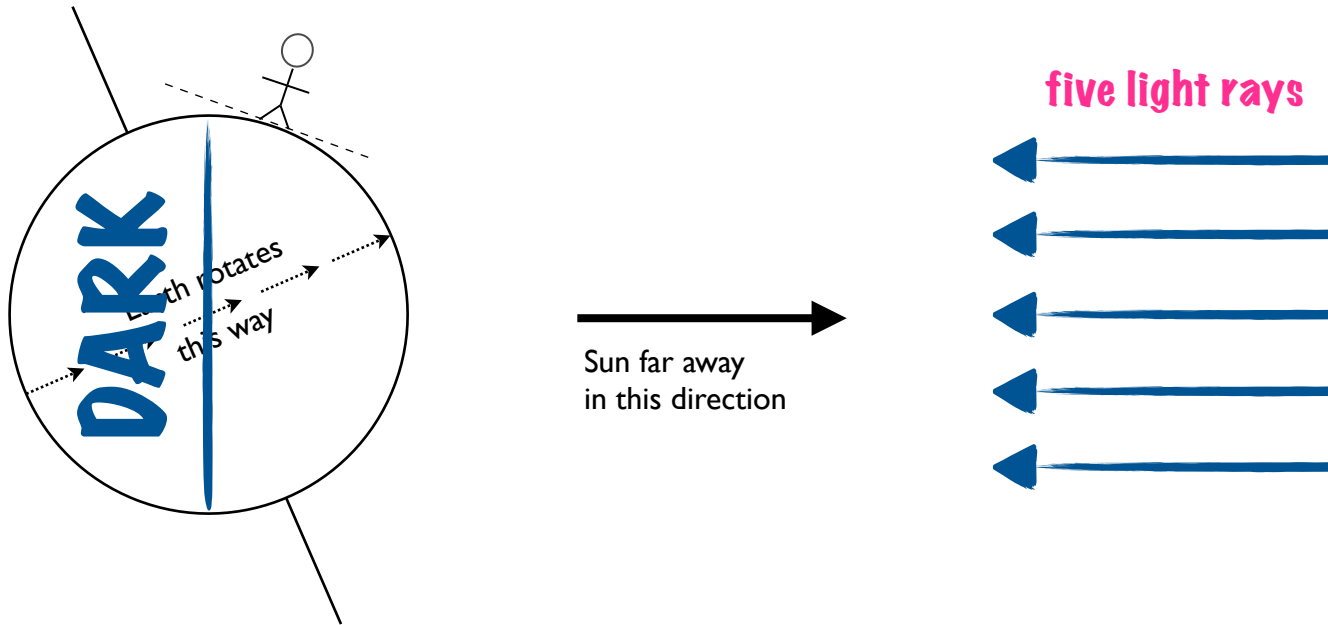


SEASONS

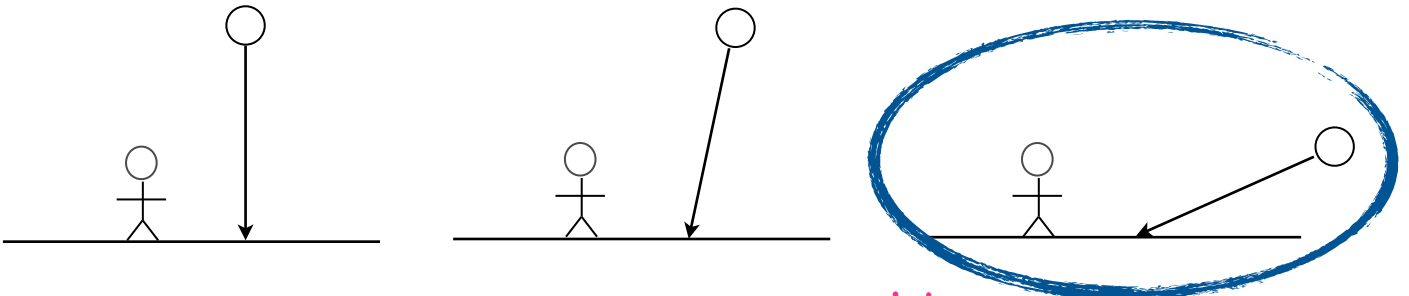
Session 6: Tilted Axis and Sun Angle

A. Interpret This Diagram:

Diagram **NOT** to scale.



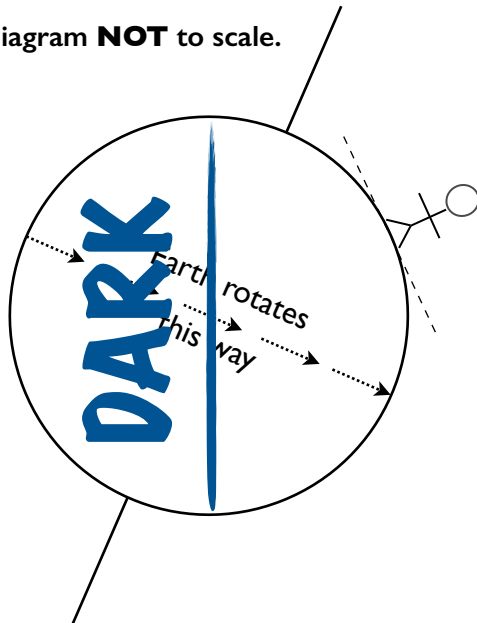
- The Northern Hemisphere is tilted away from the Sun.
< towards / away from >
- Sketch in **five light rays** from the Sun, to show how you think sunlight reaches Earth.
- Shade the diagram to show which part of Earth is **dark**.
- What time of day do you think it is for the stick person above? midday
< sunrise / midday / sunset / midnight >
- Circle which of the three figures below you think best represents the angle of sunlight hitting the person's ground at the moment shown above. The angle of sunlight is the same as the Sun Angle.



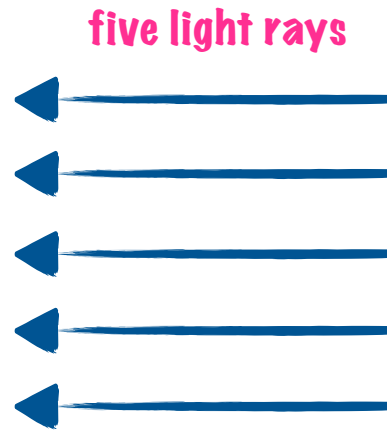
- What season do you think it is for the stick person? winter
< summer / winter >

B. Interpret this diagram:

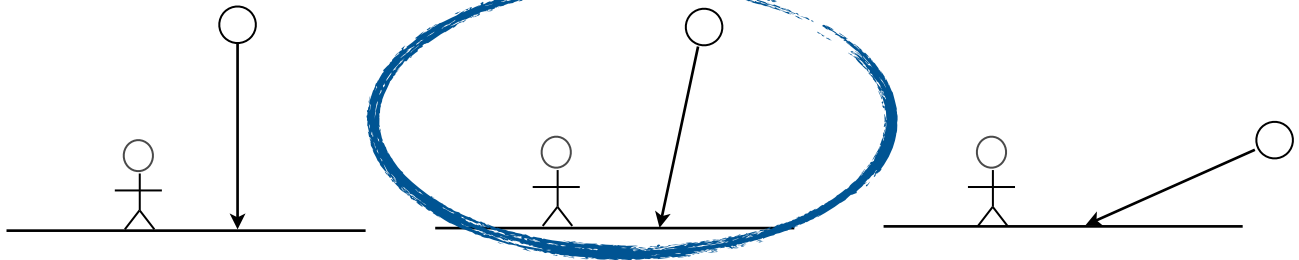
Diagram **NOT** to scale.



→
Sun far away
in this direction



1. The Northern Hemisphere is tilted towards the Sun.
< towards / away from >
2. Sketch in **five light rays** from the Sun, to show how you think sunlight reaches Earth.
3. Shade the diagram to show which part of Earth is **dark**.
4. What time of day do you think it is for the stick person above? midday
< sunrise / midday / sunset / midnight >
5. Circle the figure that you think best represents the angle of sunlight hitting the person's ground (and therefore, the Sun in the person's sky) at the moment shown above.



6. What season do you think it is for the person? summer
< summer / winter >

C. Compare:

When the Northern Hemisphere is tilted **towards** the Sun, the Sun is high in the sky at midday. This is summer.
< high / low >
< summer / winter >

When the Northern Hemisphere is tilted **away from** the Sun, the Sun is low in the sky at midday. This is winter.
< high / low >
< summer / winter >