

Name:

Date:

Lab Time:

# Seasons

1. Which three observations are so tightly related that they are all the result of the same phenomenon?

Colder temperatures at poles

Seasons

Length of day versus night

Magnetic fields

Height of Sun at noon

Average temperature of planet

2. List the primary reasons for each of these phenomena. Use the following list of reasons for each part of this question. Each part may use more than one reason and each reason may be used more than once.

Planet is round.

Planet's distance from the Sun.

Planet has an elliptical orbit.

Planet's axis of rotation is tilted from the ecliptic.

Planet's axis of rotation does not rotate in sync with the planets revolution around the sun.

Planet's amount of atmosphere determines level of insulation.

Planet has internal heat source

Planet has a magnetic field

2a List primary reason(s) for the poles being colder than the equator.

2b List primary reason(s) determining a planet's average temperature.

2c List primary reason(s) for seasons.

3. Draw the axis of rotation through Earth for Australia to be experiencing summer.

