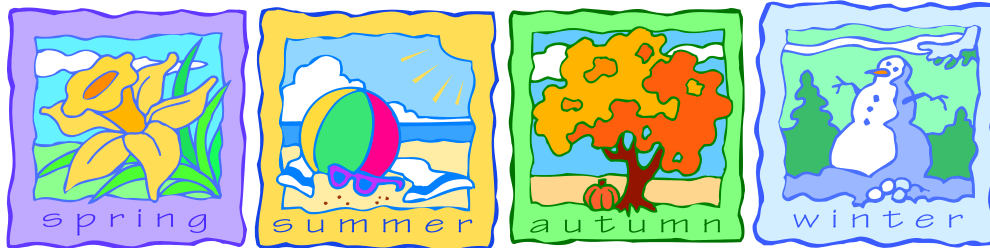


Seasons

GLE 0607.6.6 Illustrate the relationship between the seasons and the earth-sun system.

GLE 0607.Inq.5 Communicate scientific understanding using descriptions, explanations, and models.

GLE 0607.Inq.3 Synthesize information to determine cause and effect relationships between evidence and explanations.



Six students were talking. They each had different ideas about why it is warmer in the summer than in the winter. This is what they said:

Troy: "It's because the winter clouds block heat from the Sun."

Andrea: "It's because the Sun gives off more heat in the summer than in the winter."

Raul: "It's because Earth's tilt changes the angle of sunlight hitting Earth."

Fernando: "It's because the Earth orbits closer to the Sun in the summer than in the winter."

Shalonda: "It's because one side of the Earth faces the Sun and the other side faces away."

Sharon: "It's because the Northern Hemisphere is closer to the Sun in summer than in the winter."

Which response do you agree with and why? Explain your thinking about why it is warmer in the summer than in the winter.