What is the Sun?

The Sun is a star in our Solar System.

What is the Sun made of?

The Sun is made of gases.

What forms of energy does the Sun release?

The Sun releases light and heat energy.

Why does the Sun look so small, even though it is much bigger than Earth?

The Sun looks small because it is millions of miles away.

How does the Sun’s heat energy affect the water cycle?

The Sun’s heat causes evaporation.

Why is the Sun so hot?

The Sun is so hot because it is made of gases that are burning.

Why do we need sunlight in order to survive?

Plants need sunlight to make their own food and to grow.

What would the result be if you moved an object out of the direct sunlight and into the shade?

The object would get cooler.

How are the Sun and Earth alike?

Both are in our Solar System,

have gravity,

have objects orbiting them,

and have a core layer and other layers, including an atmosphere.

Which season would have the most direct heat from the Sun? Which would have the least direct heat?

Sunlight hits the temperate regions more directly in summer and less directly in winter. This causes the summer temperatures to be warmer than the winter temperatures.

What would you recommend to people to protect themselves from the Sun?

I would recommend that they wear sunscreen and hats to protect themselves from the Sun.

Would it be better for everyone on Earth if the Sun were farther away?

One possible answer is that it would be better if the Sun were a little farther away because it wouldn’t be so hot. Another possible answer is that it would not be better, because all plant and animal life is adapted to our sunlight, and the plants and animals might die with less sunlight.

What suggestions could you give your parents to help lower the air-conditioning bill in the summer?

Possible answers could be to plant trees to help give more shade, to plant trees on the west side of the house where the Sun comes up, and to close the blinds during the day to block some of the sunlight from coming into the house.