

State Language:

The student analyzes the relationship between evidence and logical conclusions.

Student Friendly Language:

I will identify the relationship between evidence and logical conclusions.

Concept (Students will know):

Analyze and evaluate the use of data.

Skills (Students will do):

Analyze

DOK Level:

4

Big Ideas:

Analyzing relationships between evidence and logical conclusions.

Essential Questions:

What tools do we use to help interpret data?

A planet's distance from the sun affects the time it takes the planet to complete an orbit around the sun. This distance from the sun also affects the planet's climate and temperature.

Data About the Solar System

Planet	Mercury	Venus	Earth	Mars	Jupiter	Saturn	Uranus	Neptune	Pluto
Distance from Sun (in km)	69.7 million	109.0 million	152.1 million	249.1 million	815.7 million	1.507 billion	3.004 billion	4.537 billion	7.375 billion
Average Temperature	350°C	480°C	22°C	-23°C	-150°C	-180°C	-210°C	-220°C	-230°C

What could be concluded about the general relationship between a planet's distance from the sun and its temperature?

- A.** The closer the planet is to the sun, the colder it is on the planet.
- B.** The farther the planet is from the sun, the colder it is on the planet.
- C.** Pluto is the farthest planet from the sun.
- D.** The temperature on Pluto is the coldest.

Core Materials

Supplemental Materials: