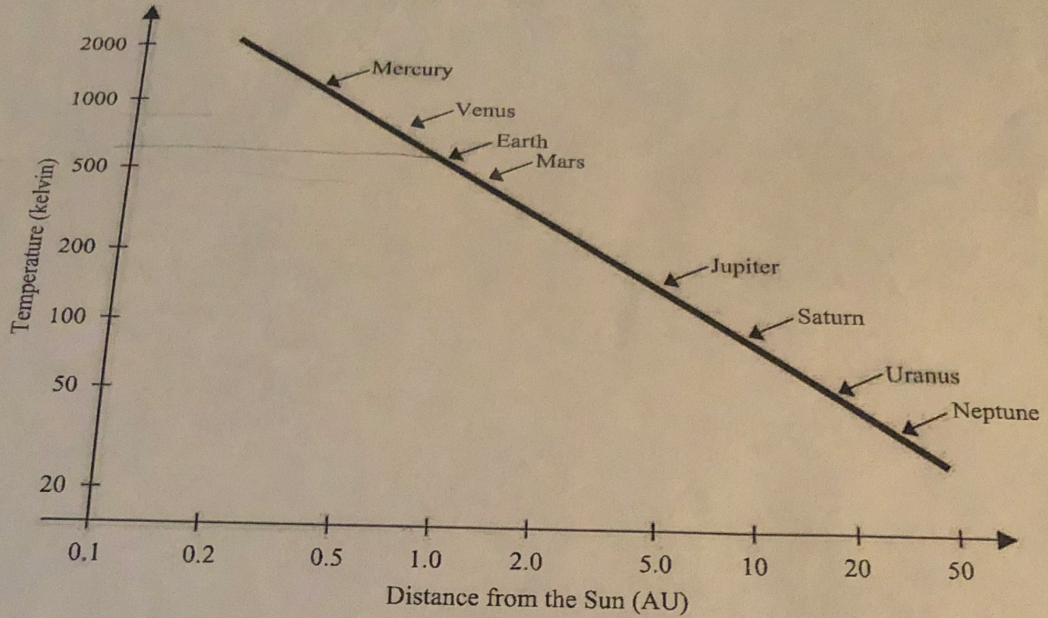


Temperature and Formation of Our Solar System

Consider the information provided in the graph and table below. The graph shows the temperature (expressed in kelvins) at different distances from the Sun (expressed in astronomical units or AU) in the solar system during the time when the planets were originally forming. The table provides some common temperatures to use for comparison.



Condition	Temp. Fahrenheit	Temp. Celsius	Temp. kelvin
Severe cold temps. on Earth	-100	-73	199
Water freezes	32	0	273
Room temp.	72	22	296
Human body	98.6	37	310
Water boils	212	100	373

- 1) What was the temperature at the location of Earth?
- 2) What was the temperature at the location of Mars?
- 3) Which planets formed at temperatures hotter than the boiling point of water?