Session 3.6

Demonstrating Cause and Effect
Guiding Question:
What evidence shows that climate change is happening?
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Fossil fuels are taken from underground.

Fossil fuels are burned.

People invent industrial tools, such as engines and factory machines.

CO₂ levels in the atmosphere increase.

More heat energy is absorbed by the atmosphere.

How could you make a cause and effect flow chart with these cards?
Flow Chart Example

- Fossil fuels are burned.
- CO₂ levels in the atmosphere increase.
- More heat energy is absorbed by the atmosphere.
- Fossil fuels are taken from underground.
- People invent industrial tools, such as engines and factory machines.
Fossil fuels are burned.

CO₂ levels in the atmosphere increase.

Graph shows CO₂ in atmosphere increasing since Industrial Revolution. Fossil fuels are made of carbon. The carbon has to go somewhere when fuel is burned.

More heat energy is absorbed by the atmosphere.

Simulation: CO₂ molecules wiggle as they absorb heat energy.

People invent industrial tools, such as engines and factory machines.

Carbon cycle diagram: fossil fuels are taken from underground and used to power industrial tools.

Carbon video: machines are powered by burning fossil fuels.
Increased CO$_2$ in the atmosphere, a result of human industry, is the main cause of changing sea ice, rising sea level, and melting glaciers.