## SCIENTIFIC EXPLANATIONS

### CLAIM

Statement about the results of an investigation.
- A one-sentence answer to the question you investigated.
- It answers, **what can you conclude?**
- It should not start with yes or no.
- It should describe the relationship between the **independent** and **dependent variables**.

### EVIDENCE

Scientific data used to support the claim.
- Evidence must be:
  - **Sufficient**- Use enough evidence to support the claim.
  - **Appropriate**- Use **data** that support your claim. Leave out information that doesn’t support the claim.
  - **Qualitative**- using sentences – or –
  - **Quantitative** – numerical – or – a combination of both.

### REASONING

Ties together the claim and evidence.
- Shows **how** or **why** the data count as evidence to support the claim.
- Provides the justification for why this evidence is important to this claim.
- Includes one or more **scientific principles** that are important to the claim and evidence.

*Remember: Read what you’ve written to be sure it makes sense as a whole explanation.*
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