# **Conclusion**

## Claim Evidence Reasoning

**CLAIM:** A statement a) of one’s understanding about a phenomenon, b) about the results of an investigation/ experiment, or c) that answers a question posed at the beginning of an investigation.

 A claim may answer the question, “Based on what you have read or have done, what can you conclude?”

 If an investigation has Dependent & Independent Variables, then the claim must state the relationship between them.

**EVIDENCE:** Data used to support a claim.

 Data may be collected by students or may be reported from other sources.

 Data may include either qualitative observation, quantitative measurements, or both.

**REASONING:** The process of making explicit how particular evidence supports a claim, and how scientific principles apply in interpreting data and making a subsequent claim.

 Reasoning typically requires relating scientific principles--what we know in science-- to what one is currently doing or learning.

 Reasoning requires justifying how it is that particular data count as evidence to support the claim one is making.