

Scientific Argumentation Guide

Topic: _____
 Title: _____
 Source: _____

Name: _____
 Class: _____
 Date: _____

1 What is the **Claim**, including any **Qualifiers**? Are there qualifiers? **Yes/No**. (If yes, underline them.)

2 What **Evidence** is presented?
 In column 3, identify the type of evidence with the letter: **Data (D), Fact (F),**
Opinion (O), Theory (T). →

3

5 What chain of **reasoning (warrant)** connects the evidence to the claim? In column 6, identify type of reasoning with the letter(s):
 For **AUTHORITY (A), THEORY (T)**, or type of **LOGIC: Analogy (AN), Correlation (C), Cause-Effect (CE), Generalization (G)**

6

4 **Evaluate** the quality of the evidence as poor, average or good. **Explain** your evaluation.

Reliable
Valid
Objective (no bias)
Methodology

7 **Evaluate** the quality of the chain of reasoning as poor, average or good. **Explain** your evaluation.

Strength of Authority
Application of Theory
Type of Logic

8 What are your concerns about the believability of the claim? (Your counterarguments, rebuttals or new questions)?

9 Accept, reject, or withhold judgment about the claim. **Explain** your judgment.