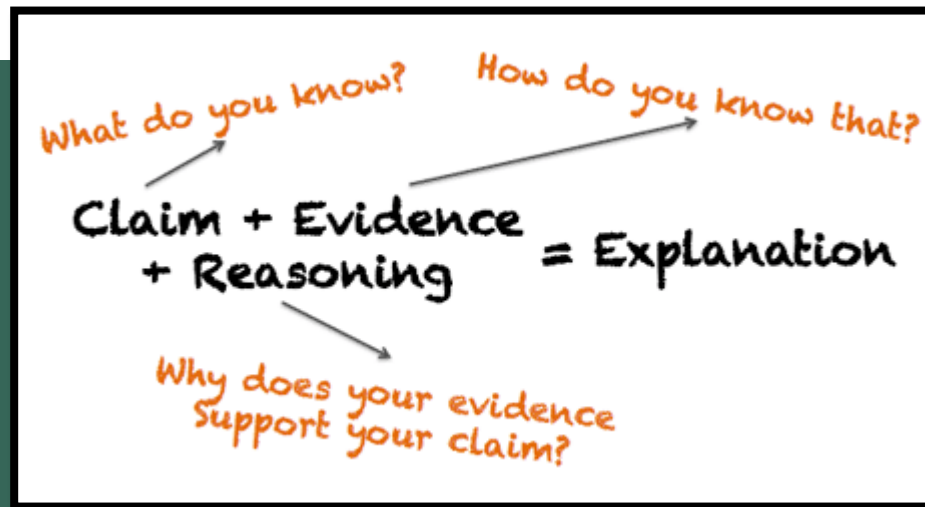


CLAIMS, EVIDENCE, & REASONING



EXPRESSING YOUR THOUGHTS ABOUT A PROBLEM USING RESEARCH, EXPERIMENTATION, AND SUPPORT.

WRITING A CLAIM

No Personal Pronouns

- (I, you, we, your, ours, they, me, etc.)
- **Write a statement** that answers the problem/question.
- Example – **Problem- Is air matter?**
 - **Claim – Air is matter.**

What do you know?

HOW DOES SURFACE TENSION AFFECT WATER IN SPACE?

Write a claim - Answer the question

- **No personal pronouns**
- **Use your own knowledge about water**
- **How can we test this?**

- **Example – Surface tension will keep water in space together.**

MORE CLAIM WRITING PRACTICE

- **Is global warming caused by humans?**

Claim: Global warming is caused by humans burning fossil fuels.

- **Does the Airborne supplement prevent illness?**

Claim: The supplement Airborne gives extra vitamins which help to prevent illnesses.

READ THE SURFACE TENSION ARTICLE

- What is Surface Tension?

Evidence: Surface tension is the “skin” that is created by water when particles join together.

- How might surface tension work for water on a flat surface?

Inference: On a flat surface, surface tension will keep water drops together.

COLLECT EVIDENCE

- Research – read text, articles, online sources, view videos
- Experiment – lab testing
- Collect DATA – numbers, observations



EXAMPLE EVIDENCE:

Water in Space

Evidence:

- Water forms a sphere in space.
- When prodded water moves but remains circular.



EXAMPLE PROBLEM: WHAT HAPPENS TO WATER IN SPACE?

Towel in Space

Evidence:

- Water clings to objects
- Water clings to water molecules



PROBLEM: HOW DOES SURFACE TENSION AFFECT WATER?

- Organize your evidence
- List two pieces of evidence for each source

Source	Evidence 1	Evidence 2
Space Video		
Surface Tension Article		
Penny Lab		

PROBLEM: HOW DOES SURFACE TENSION AFFECT THE AMOUNT OF DROP A PENNY CAN HOLD?

- Write a hypothesis
(fill in spaces on lab sheet)
 - Include the amount of drops
 - No personal pronouns



EVIDENCE: SURFACE TENSION OF WATER ON A PENNY

- Problem: How does surface tension affect the amount of drops that a penny can hold?
- Evidence: From the experiment
 - Fill in the Evidence Chart with 2 or more pieces of evidence from the penny lab

EXAMPLE: WATER IN SPACE

Claim

Water in space will form into a sphere shape. ^{The water in space}

Evidence

video of the astronaut confirms this claim. As seen, the water particles,

when released from the container stuck together. This reaction formed a circular shape which remained in tact even when the surface was

broken. Therefore, the claim that water will form into a sphere in space

is correct. **Conclusion**

REASONING: (5-7 SENTENCES)

- Restate the claim.
- Use **3 or more pieces of evidence** from **3 sources** (or more) to explain what surface tension is and how it works
- Conclude with a sentence statement of how the claim is correct.