



TESTING THE EFFECT OF ACID ON DIFFERENT TYPES OF STONE

Name: _____

Date: _____

A simple experiment to observe how acid reacts with different stones.

QUESTION

How does acid affect different types of stone?

HYPOTHESIS

I think _____
will react the most with acid
because _____.

SAFETY FIRST



- Wear safety goggles.
- Handle acid carefully.
- Do not touch acid with your skin.
- Work in a well-ventilated area.
- Wash hands after the experiment.

MATERIALS

- White vinegar (5% acetic acid)
- 5 small, clean containers (cups or bowls)
- Dropper or spoon
- 5 different types of stone (see suggestions)
- Paper towel
- Magnifying glass (optional)
- Notebook or lab sheet

SUGGESTED STONES

- Limestone
- Marble
- Chalk
- Granite
- Quartz



Limestone



Marble



Chalk



Granite



Quartz

PROCEDURE

1. Place one stone in each container.
2. Add enough vinegar to each container to cover the stone.
3. Observe each stone for 2–5 minutes.
4. Look for bubbles (fizzing), changes on the surface, or pieces breaking off.
5. Record your observations in the table below.
6. When finished, carefully pour the vinegar down the sink and rinse the stones with water.

RESULTS

Type of Stone	Did you see bubbles (fizzing)? Yes / No	How strong was the reaction? (None / Slight / Moderate / Strong)	What changes did you see on the stone?	Notes / Drawings (optional)
Limestone				
Marble				
Chalk				
Granite				
Quartz				

CONCLUSION

Which stone reacted the most with vinegar? _____

Which stone did not react? _____

What does this tell you about the stones? _____

THINK & EXTEND

Why do you think some stones fizzed while others did not?

Where in real life might this be important?
