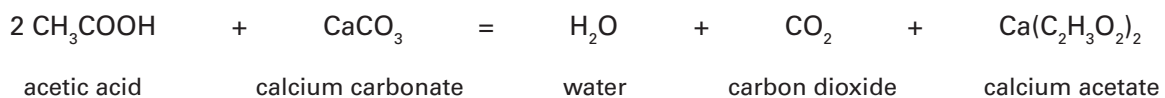


6.2

CARBON FROM ROCK

Is carbon stored in rocks?



MATERIALS

- 12-oz plastic pop bottle
- Balloon
- Chalk (Optional: rock chalk)
- White vinegar
- Plastic bag
- Hammer
- Optional: mortar and pestle

DIRECTIONS

1. Powder 1–2 sticks of chalk in a plastic bag or with a mortar and pestle.
2. Add powdered chalk to plastic pop bottle.
3. Add $\frac{1}{4}$ cup vinegar.
4. Quickly attach balloon over top of the pop bottle to capture gas.
5. Shake up vigorously for 5 seconds.
6. Describe what you see occurring in the bottle as the vinegar was added.

REFLECTION

1. What gas is being produced as a result of this reaction?
2. How do you observe the gas release from the rock?
3. What chemical compound in the chalk is reacting with the vinegar?