**Does Saltwater or Freshwater Conduct Electricity?**

**Materials:**

* masking tape
* 9-volt battery
* buzzer
* two craft sticks
* tablespoon
* aluminum foil
* beaker of water

**Procedure:**

1. First, cover both craft sticks with aluminum foil.
2. Next, take the buzzer and tape the red wire to the positive end of the battery (+ sign).
3. Tape one foil covered craft stick to the black wire, and tape the other one to the negative side of the battery (− sign).
4. Bring the two sticks together. The buzzer should sound. If the buzzer doesn’t sound, double check that everything is taped together properly.
5. Fill the beaker halfway with water.
6. Have one student from your group scoop three tablespoons of salt into the beaker of water.
7. Have another student stirs the salt into the water until it dissolves.
8. Next a different student puts the tips of the metal sticks in the salt water about an inch apart. Be sure the two sticks don’t touch each other!
9. Repeat the experiment with the freshwater. Discuss why the buzzer sounded in the saltwater, but not the freshwater.