

## Alerts and Warnings!

Everyone wants or needs to be alerted when certain things are happening. You may need to be alerted that it is time to get up in the morning, catch the school bus, eat dinner, or that your room has been invaded.

### Design Challenge:

Design and build a personal alert system that will help make your life or the life of someone in your family a little better. Your system must contain an electrical circuit with a homemade switch and be attractive, easily seen or heard, and be reusable

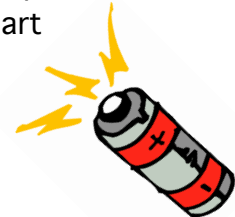
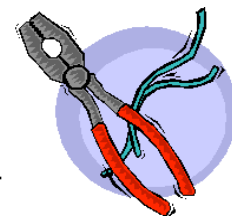
### Criteria:

Your system must

- have a working homemade switch.
- have a light bulb or buzzer that is easily seen or heard.
- improve life for you or someone in your family.
- be reusable.

### Materials: What can you use?

- electrical wire
- electrical tape
- batteries
- Christmas tree lights
- buzzer
- brass brads/paper fasteners
- metal paper clips
- card stock
- aluminum foil
- clothes pins
- film canister
- ball bearings
- wire strippers
- scissors, markers, rulers, pencils, glue, and other general art supplies



~ Not all supplies need to be used. ~

Virginia SOL Target Standards:

Science: 2.1, 3.1, 4.3, 5.1

Supporting VA SOL Standards:

Science: 4.1, 4.2

English: 2.2, 2.3, 3.1, 4.1

Math: 2.12, 3.14, 4.12

