

Challenge #1: Build Bob a Flashlight



Problem:

The sliver of light that shines through the crack in Bob's closet only lasts 26 minutes each day. He wants more time to read his dictionary, but as we know, he doesn't know about the light in the closet! Let's pretend that Bob finds these items in one of the shoeboxes on the top shelf:

Tape Pop Sticks LEDs Coin Batteries
Conductive Foil Tape (acts as "wire") Binder Clips Scissors
Modeling Clay Clothespins

Challenge:

Use these items to create a flashlight for Bob.

Criteria:

Your flashlight must be able to have a "switch" to turn it on and off.

Constraints:

1. You may ONLY choose items for the list above.
2. You MUST use at least 3 items from the list.

Research:

1. You can use this video to learn about how a circuit works: SciShow Kids: The Power of Circuits (Schoology)
2. You may also do some online searches to help you figure out how to complete the challenge with these items available to you.