PERSONALIZED LED KEYCHAIN

EXPERIMENT

MATERIALS YOU'LL NEED

- PLASTIC BOTTLE CAP OR A SMALL CONTAINER BIG ENOUGH TO FIT A COIN BATTERY
- · A LED DIODE
- A COIN BATTERY
- A KEY CHAIN RING OR CHAIN OR STRING
- DOUBLE-SIDED FOAM TAPE
- DECORATING MATERIALS (RHINESTONES, POMPOMS, GOOGLY EYES, PAPER, DOUBLE-SIDED),
- ADHESIVE PAPER (ANYTHING YOU'D LIKE)



- SOLDERING IRON OR SOME TOOL TO MAKE TWO HOLES IN YOUR PLASTIC CAP OR PLASTIC CONTAINER
- SCISSORS (OPTIONAL)
- HOT GLUE GUN (OPTIONAL)

STEPS

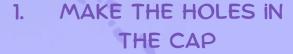






LED

BOTTLE



- 1.ASK AN ADULT TO HELP YOU.
- 2. MAKE ONE HOLE BIG ENOUGH FOR THE KEYCHAIN RING.
- 3. MAKE ANOTHER HOLE BIG ENOUGH FOR THE LED LIGHT TO FIT THROUGH.



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2. GET THE TAPE READY

SOLDERING

IRON

- 1.CUT A SMALL SQUARE OF DOUBLE-SIDED TAPE.
- 2.STICK IT INSIDE THE BOTTLE CAP OR CONTAINER.

3. TEST THE LED AND BATTERY

- 1.HOLD THE LED'S LONG LEG TO THE "+" SIDE OF THE BATTERY.
- 2.HOLD THE LED'S SHORT LEG TO THE "-" SIDE OF THE BATTERY.
- 3.IF THE LIGHT DOESN'T TURN ON, FLIP THE BATTERY AROUND AND TRY AGAIN.

4. PUT THE LED IN PLACE

- 1.SLIDE THE LED THROUGH ITS HOLE IN THE CAP.
- 2.KEEP THE BATTERY BETWEEN THE LED'S TWO LEGS.
- 3.PRESS ONE SIDE OF THE BATTERY DOWN ONTO THE TAPE SO ONE LEG STAYS TRAPPED BETWEEN THE BATTERY AND TAPE.





5. MAKE THE ON/OFF SWITCH

- 1.GENTLY BEND THE OTHER LEG OF THE LED UP A LITTLE.
- 2. WHEN YOU PRESS IT DOWN, THE LIGHT TURNS ON.
- 3. WHEN YOU LET GO, THE LIGHT TURNS OFF.

6. ADD THE KEYCHAIN RING

1.THREAD THE KEYCHAIN RING THROUGH THE OTHER HOLE. 2.CLOSE IT SO IT'S SECURE.



7. DECORATE YOUR KEYCHAIN

1.USE STICKERS, RHINESTONES, GOOGLY EYES-ANYTHING YOU LIKE! 2.IF YOU USE HOT GLUE, ASK AN ADULT TO HELP.

FINAL RESULT



DECORATIONS

