## What we're making today:



#### Light-Up Pop-Up Greeting Cards

#### **Basic Circuit**



# A circuit is the circular path that electricity flows through



(CR1225)



# **About Copper Tape**

#### Pros:

- Nice and conductive!
- Peel and stick
- Can use conductive paint to attach components to it
- Can solder components to it





#### Cons:

- Needs a continuous line so you must get creative when turning corners
- Adhesive is NOT conductive
- Can have sharp edges so be careful!

#### Let's Get Started! Look at your template:



## Turning corners with the copper tape



It's okay if your fold isn't perfect — we just want to go around the corner without the tape breaking

### Joining tape in case of breaks/tears



- Join pieces by touching the TOP SIDE of the copper tape to the TOP SIDE of each section
- Secure with clear tape

### **Making a Battery Holder**





#### Add the LilyPad Button





Try not to tape directly over the push button

Keep to the pad ends

### **Folding Tips**



Cut some vellum that is a little bigger than the hole in the heart and paste/tape it behind the opening before you start folding

Push the bottom of the U or I letters down first and work your way up to the smaller folds

# **Folding Tips**

# This template is tricky and takes some patience to fold

Hang in there!

Hold the template upside down and start with the point of the – heart

Use gravity to help you pull all the little folds up one by one



#### Add text or a symbol showing where to press





If you are mailing your card, mark the outside envelope "hand cancel" so the LED won't get crushed by sorting machines :)