# Caring Adult Network 

Active Learning Workshop: Digital Youth Divas e-Cards


## Materials Needed

Every person making a card needs:

- Construction paper (for the card but also if you wish to cut out shapes)
- Slot battery holder
- LED light
- Copper tape
- 3V coin cell battery

On your table:

- Sample eCard
- Sample Diva Card Circuit handout
- zSeries Circuit in a Flash handout
- Troubleshooting Guide: "Is yours not working?"
- Markers and colored pencils
- Tape
- Scissors
- Round needle nose pliers
- Toothpick


## Tutorial: Making the Digital Youth Divas e-Card

|  |  | Designing the e-card |
| :--- | :--- | :--- |
| 1. Design an image on the |  |  |
| outside of the card, keeping |  |  |
| in mind where you want to |  |  |
| place your LED light. |  |  |

## Placing the LED

3. After you draw your circuit map, create a tiny hole using the toothpick where you will place your LED.


| 4. Insert the LED legs. Double |
| :--- | :--- |
| check that the legs are in |
| the correct polarity direc- |
| tion to match your circuit |
| drawing. |
| - The longer leg is (+) |
| positive. |
| - Inside the LED globe, the |
| thicker metal piece is (-) |
| negative. |




## Connecting the LED to the battery holder

12. Cut a piece of copper tape
that will be long enough
to reach from the positive
(+) LED leg to the positive
copper tape connection to
the battery holder. (Note:
if the piece is not long
enough, you can always add
more copper tape to the
path.) Wrap the copper tape
around the positive (+) LED
leg curl.
13. Connect the copper tape
from the positive (+) LED leg
to the positive (+) side of
the battery holder.
14. Repeat steps 12 and 13 for
the negative (-) side.
Your completed path from
the LED to the battery holder
should look like this:

|  | Light it up! |
| :--- | :--- | :--- |
| Congratulations on completing <br> your first e-card! <br> Is yours not working? See the <br> Troubleshooting guide |  |

## Activity Discussion Questions

- Did anything surprise you about doing this activity?
- How did you feel when your card finally lit up?
- What parts of the activity were the most fun / most challenging?
- How did you work through challenges? (people, resources, prior knowledge)
- Do you see any connections between this activity and learning opportunities in your learning environment(s)?

