

CONDUCTIVE TAPE COMMUNITY PROJECT

Working as a group, you will be creating a functioning urban or rural community. This could be a street, factory, downtown, school, etc. It could represent your own community or an imagined. Apply your creativity and your new knowledge of circuits to create something original.

1. Brainstorm with your group about what your lights, motor and vibrating motor could represent in your scene. Record ideas below.

Battery pack	
LEDs	
Rotating motor	
Vibrating motor	
Battery packs	

2. Include the following design constraints.

- a. Your scene needs to fit and fill the given piece of cardboard.
- b. Use all of the materials your group has been given.
- c. Use at least one series circuit and at least one parallel circuit.
- d. Your scene looks clear and presentable.

3. Draw an outline of your scene on your provided cardboard. You can fill in more detail once the electrical is in place.

4. Start creating! Work together and have everyone contribute.

5. Be prepared to present and explain your scene to the class. Be able to explain:

- technical elements of how you connected your circuits
- creative elements about why you chose particular designs.

6. Reflect on and self-assess your work with the rubric on the backside.

COMMUNITY RUBRIC

	4	3	2	1
Scene fits on the cardboard.	The scene completely fits on and fills the cardboard.	The scene mostly fits on and fills the cardboard.	The scene fits on or fills the cardboard.	The scene neither fits on or fills the cardboard.
Used all of the provided materials.	The group used all of the provided materials.	The group did not use one of the provided materials.	The group did not use two of the provided materials.	The group did not use two or more of the provided materials.
At least one series and one parallel circuit.	The community includes at least one series and one parallel circuit.	The community includes a functioning parallel circuit only.	The community includes a functioning series circuit only.	The community includes neither circuit.
Clear and presentable.	The project is clear and presentable. Color is included in the scene. Cutting, gluing and taping do not obstruct the understanding of the scene.	The project is mostly clear and presentable. Color is included in the scene. Cutting, gluing and taping do not obstruct the understanding of the scene.	The project is not clear and presentable. Color may be missing from the scene. Cutting, gluing and taping obstruct the understanding of the scene.	The project is not messy and not presentable. Color is missing from the scene. Cutting, gluing and taping obstruct the understanding of the scene.