CONDUCTIVE PLAY DOUGH SANTA'S WORKSHOP

After completing the Circuit Basics assignment, you are now ready to put your knowledge to the test. Your team will be creating a dough mock-up of a fun, functional toy that kids could use. Let your imagination run and be creative.

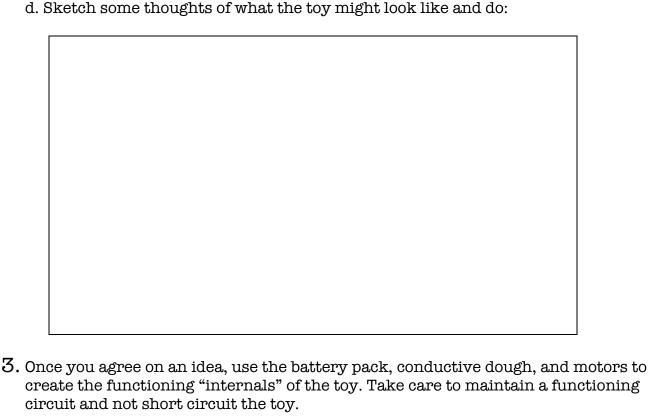
A. DESIGN CHARACTERISTICS

- The toy should have a distinct and creative style.
- The toy should function and do something entertaining.
- The toy should match its marketing and packaging.

B. PROCESS

- 1. Gather your materials. They should include:
 - conductive dough
 - insulating dough
 - battery pack
 - LEDs
 - rotating motor
 - vibrating motor

).	As a group, brainstorm some design elements.
	a. What will your toy do?
	b. What do you want it to look like?
	c. Who is the target buyer?



- circuit and not short circuit the toy.
- 4. Now utilize the insulating dough to create the external details. Give it style, personality and character. What would make someone want to buy your toy?
- 5. How do you turn it on and off? Is there a straightforward way to make a usable switch?
- 6. Trade toys with another group in order to test it with them. Does it work as it is supposed to?

INTERDISCIPLINARY EXTENSIONS

English Language Arts: Imagine your toy is personified. Write the backstory about your toy.

Social Studies/Service: Think about sharing your toys with younger students or at a local childrens' hospital.

Math: Can you figure how much money your toy cost to build? What price should it be?

Art/Design: Finally, create the packaging for the product. How can your packaging lure in a potential new customer?