

GET SNAPPED WITH SNAP CIRCUITS 3

OVERALL TIME 60- to 120-minute lesson

GROUPS Three to four kids per kit

Next Generation Science Standards

4PS3-4

Apply scientific ideas to design, test, and refine a device that converts energy from one form to another. (Examples of devices could include electric circuits that convert electrical energy into motion energy of a vehicle, light, or sound.)

OBJECTIVE

- **Identify and construct different types of circuits.**
- **Make connections to energy sources in real life.**

MATERIALS

- **Snap Circuit kit (one per group)**
- **Snap Journal (one per person)**
- **Chart paper**

PREPARATION

Copy Snap Journals for the class.
On chart paper, write the challenge and requirements.

LAUNCH 5 to 10 minutes

Have kids form a circle. Ask them to think about what their life would be like without electricity. Are there things they would miss? Go around in a circle and have each kid name one thing.

EXPLORATION 40 to 90 minutes

Have kids form groups of three to four. Once kids are in groups, explain that they will be exploring and interacting with basic circuitry using Snap Circuits to perform a challenge. Introduce the challenge, requirements, and Snap Journal.

CHALLENGE

Create a circuit that includes the following: light, movement, and sound.

Requirements:

- Groups will present their design.
- All kids will complete a Snap Journal.
- Each group member will be responsible for answering one or more of the following questions during the presentation:
 - *What is your Snap Circuit design?*
 - *Does your design include light, movement and sound?*
 - *Explain and demonstrate how the circuit works.*
 - *How did your team decide on this design?*
 - *Were there any challenges your team faced during this activity?*
 - *How did your team address these challenges?*

CLOSING 15 to 25 minutes

Allow each team 3 to 5 minutes to present.