

Name:

Date:

Class:

## Create a Communication Device Worksheet

### Constraints:

- Must not go over \$20 budget.
- Communication device must be at least 6 meters long.

### The Problem (Ask)

What problem are we trying to solve?

### Research Notes (Research)

Write down what you learn about materials that make sound louder or softer.

### Brainstorming Notes (Imagine)

Write down ideas for your communication device.

Name:

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Budget:

Material	Cost

Final Cost: \$ \_\_\_\_\_

### Your Design (Plan)

Draw a picture of your what your device will look like with arrows identifying each material you used.

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What materials did you use? Why did you choose those? (Create)

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After you test your design, what will you change? (Test) Are there different materials you are going to use? (Improve)

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What worked with this redesign? What would you change? (Improve)

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Which materials absorbed the loud sound the worst?

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