

Name:

Date:

Class:

Design a Building Worksheet

Constraints:

- Must not go over \$20 budget.
- Building must be 30 cm tall.
- Building must sit within a 30 cm by 30 cm square

The Problem (Ask)

What problem are we trying to solve?

Research Notes (Research)

Write down what you learn about materials that absorb sound.

Brainstorming Notes (Imagine)

Write down ideas for your building design.

Name:

Date:

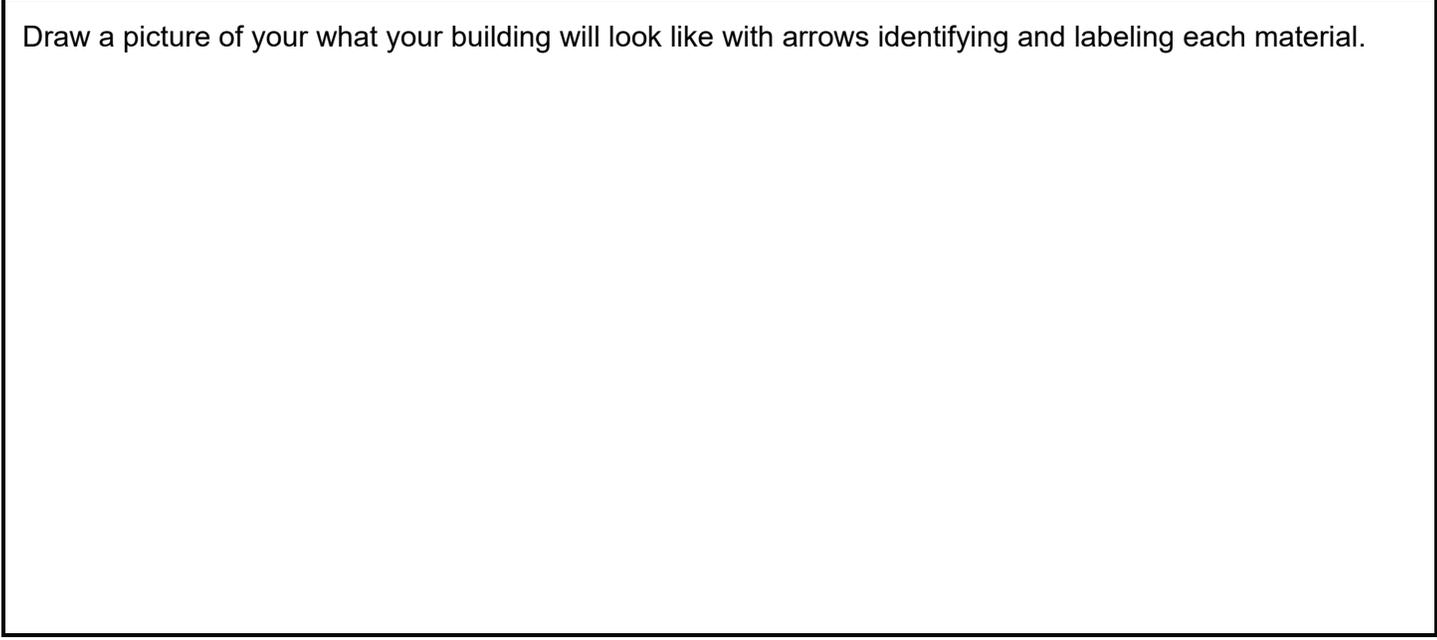
Class:

Material	Cost

Final Cost: \$ _____

Your Design (Plan)

Draw a picture of your what your building will look like with arrows identifying and labeling each material.



Name:

Date:

Class:

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

Record how many decibels are measured inside of your building each time you test. (Test)

Test Number	Decibels measured inside building
1	
2	
3	

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

Record how many decibels are measured inside of your redesigned building.

Test Number	Decibels measured inside building
1	
2	
3	

Name:

Date:

Class:

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

Which materials absorbed the loud sound the best?

Which materials absorbed the loud sound the worst?
