

Sound Machine

Maker Connect

Music is made up of a combination of sounds, notes and rhythm. A rhythm is a regular movement or repeated pattern of movements that can be used in many different ways. In mechanical machines, a rhythm can help keep a machine running smoothly. It can also be used to generate different sounds in music.

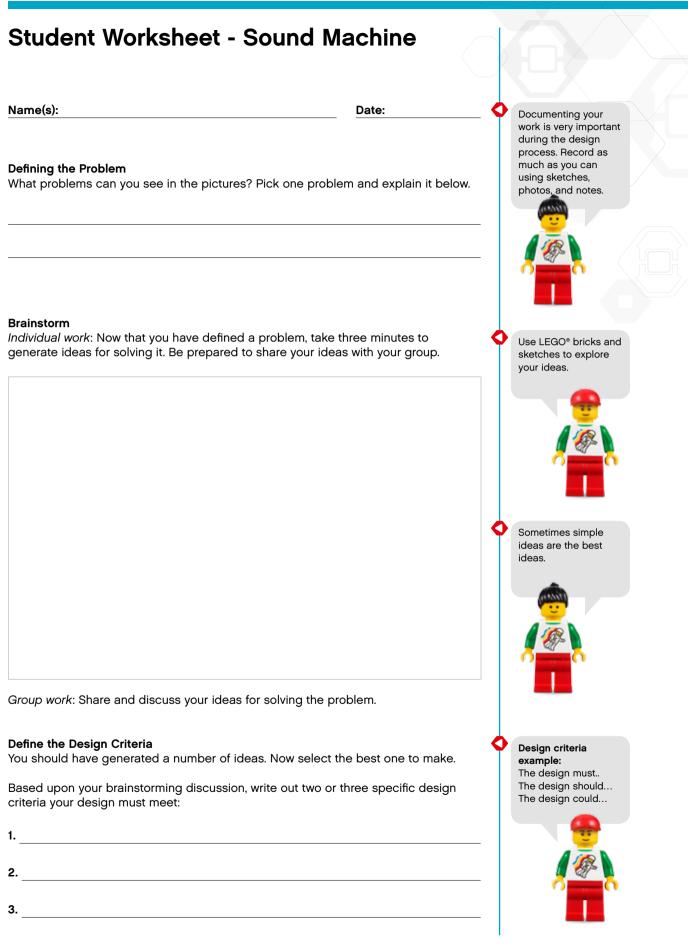
Look at the photos below and answer the questions.

- What do you see?
- · Can you see any new design opportunities?
- · What problems can you see?
- How could you make use of the LEGO[®] bricks, Programmable Brick, motors, and sensors?





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Go Make

It is time to start making. Use the components from the LEGO[®] set to make your chosen solution. Test and analyze your design as you go and record any improvements that you make.

Review and Revise Your Solution

Have you managed to solve the problem that you defined at the beginning of the lesson? Look back at your three design criteria.

How well does your solution work? Use the space below to suggest three improvements to your design.

1.	
2.	
-	
3.	
-	

Communicate Your Solution

Now that you have finished, make a sketch or take a photo of your model, label the three most important parts, and explain how they work. You are now ready to present your solution to the class.

Print off your photos, and attach all of your work onto a piece of paper or card stock.

You can use other

the classroom.

materials from around

