

Maker Connect - Make a Wearable

Wearables or wearable technology is being used more and more in everyday life. We see wearable technology in the the form of health monitors, mind-controlled and gesture-controlled devices, invisibles, VR headsets, and smart watches that can pay for your shopping and even reveal your flight boarding pass. These are just a few of the many products that already exist.

Look at the images below.

- · What can you see?
- · What problems can you see?
- · How did these problems occur?
- · What new design opportunities are there?







Student Worksheet - Make a Wearable

Date:		D
and explain it below.		Documenting your work is very important during the design process. Record as much as you can through sketches, photos and notes.
ee minutes to generate ideas for		Use LEGO bricks and sketches to explore your ideas.
	0	Sometimes simple ideas are the best ideas.
		ee minutes to generate ideas for

Group work: Share and discuss your ideas for solving the problem.

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Define the Design Criteria

You should have generated a number of ideas. Now select the best one to make.

Based upon your brainstorming discussion, write down two or three specific design criteria that your design must meet:

l .			
2.			
3.			

example: The design must... The design should... The design could...

Design criteria



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			

You can use other materials from around the classroom.

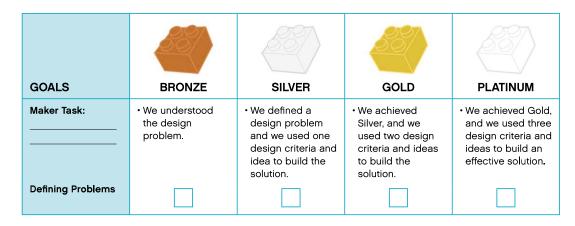


Communicate Your Solution

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 your photos and attach all of your work to a legal size sheet of paper or card stock.

Assessment



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Well done! What will you make next?

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