

Puppet

Maker Connect

Puppets have been used for generations to tell stories and create characters for TV and film. They can be as simple as a thumb puppet or as complex as a moving animatronic dinosaur used in a movie.

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 and Programmable Brick?







Student Worksheet - Puppet

Defining the Problem What problems can you see in the pictures? Pick one Brainstorm	problem and explain it below.	-	Documenting your work is very important during the design process. Record as much as you can using sketches, photos, and notes.
Individual work: Now that you have defined a problem, generate ideas for solving it. Be prepared to share you			Use LEGO® bricks and sketches to explore your ideas.
Group work: Share and discuss your ideas for solving	the problem.	•	Sometimes simple ideas are the best ideas.
Define the Design Criteria You should have generated a number of ideas. Now see Based upon your brainstorming discussion, write out to criteria your design must meet: 1	wo or three specific design		Design criteria example: The design must The design should The design could

Go Make

It is time to start making. Use the components from the LEGO® set to make your chosen solution. Test and analyse 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.

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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.



You can use other materials from around the classroom.



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

