

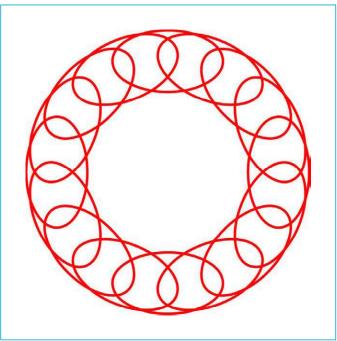
# Maker Connect - Make a Repeated Pattern

We live in a world full of symmetry and math. From this, many artists and designers find inspiration.

Look at the images below.

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





# Student Worksheet - Make a Repeated Pattern

Date:	Ó	Documenting your
and explain it below.		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.
	and explain it below.	and explain it below.

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

#### 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:

1	
2.	
3.	

# The design must... The design should... The design could...

Design criteria

example:



#### 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.

## Assessment

GOALS	BRONZE	SILVER	GOLD	PLATINUM
Maker Task:  Obtaining, Evaluating and Communicating	We drew and labeled the parts of our design.	We met Bronze and we identified the location of the key component parts responsible for the pattern we observed.	We met Silver and we included a diagram showing the pattern we observed.	We met Gold and we used words and a diagram to explain how this new design caused the pattern we observed.
Information				

Well done! What will you make next?

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



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