

# Divergent Thinking Mini-Project



## LESSON PREVIEW

### Lesson Topic

Divergent Thinking Project

### Estimated Time:

90 minutes

### Objectives:

- I can generate ideas of potential features for my design
- I can analyze and combine ideas to create a plan for a prototype
- I can create a prototype by working collaboratively with my design team
- I can create an annotated visual showing how my prototype works

### Vocabulary:

- Generate
- Features
- Prototype
- Annotated
- Modifications



## LESSON PREPARATION

### Recommended Resources:

- Projector – Teacher
- Each group gets:
- Stack of paper clips
- Some rubber bands,
- A marble,
- Two sheets of paper, and
- Three straws.

### Preparation Tasks

- Make sure to set up the classroom in a way that facilitates collaboration
- Make sure each box is filled with the necessary supplies
- Make sure that you have set up the slideshow



## LESSON OUTLINE

Slide #	Time	Student Tasks
1-3	5-10 minutes	Students will be allowed to look at the items on their table.  <b>Individual</b> Warm-up: What would you make with this? Generate a list of ideas.
4	2-5 minutes	<b>Partners</b> Pair-Share: Share your list
5	5 minutes	<b>Whole Class</b> Show the video. Afterward, break students into design teams that are different from the tables they are currently sitting at.
6	5 minutes	<b>Small Group</b> Brainstorm a list of ideas by going round-robin
7-8	10 minutes	<b>Small Group</b> Analyze ideas, combine them, and narrow it down to one concept Optional: Create an initial sketch of how it works
9-11	45 minutes	<b>Small Group</b> Prototype your design
12	10 minutes	<b>Small Group</b> Share how your product works by creating a blog post, podcast, or video.