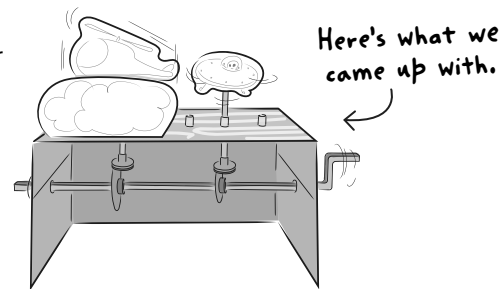


Name(s): \_\_\_\_\_

Date: \_\_\_\_\_

# Set the Scene Design Challenge

Build your own version of the automaton! Use the paper in your kits to draw and cut out characters or scenery. Your automaton must show **two different types of motion**, like hopping, shaking, spinning, and more!



## Part 1: Brainstorm

What two types of motion will your automaton have?

Example: The helicopter blades will spin round and round. The UFO will move up and down while spinning.

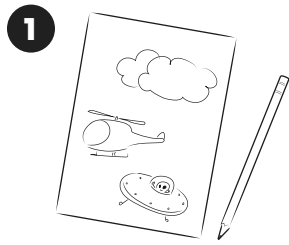
Sketch your ideas for the automaton below.



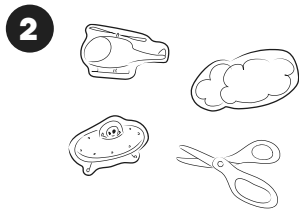
What materials will you use to build? You can use the extra brads, sticky foam, and tape in your kits.

Example: paper, double-sided sticky foam, 2 dowels, 1 slider + 1 spinner, cam A + cam F

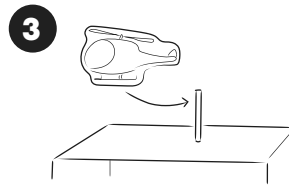
## Part 2: Build



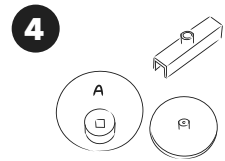
Draw your design on the blank paper.



Color and decorate your design, then cut it out.



Use sticky foam or tape to stick the design onto dowels.



Add cams, sliders, and spinners. Then turn the crank and test out your design!

## Part 3: Reflect

Did the design move the way you thought it would?

*Example: My UFO didn't go up and down while spinning. I think I used the wrong cam.*

What worked really well?

*Example: The helicopter looked like it was flying!*

What could you make better about my design?

*Example: I could use a different cam. I could also use more sticky foam because the helicopter blades fell off.*