

Spring Showers Bring More Spring Flowers!

It's now spring time and growing season! In this Smart Motor activity, you will create a spring flower using pipe cleaners and/or other supplies and add data into the Smart Motor to make it move. Will your flower grow, move in the wind, or adapt to its habitat? Use creative thinking and botanical knowledge in this project. Can we put our spring flowers together to create a beautiful garden?



Think Like an Engineer:

What type of flower will you create? Can you add all of the parts of the flower in the model you make? How will your flower move? What will the movement(s) represent?

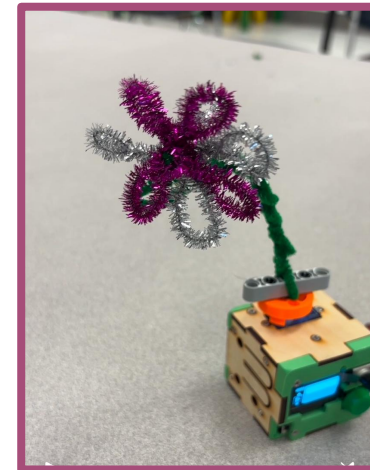
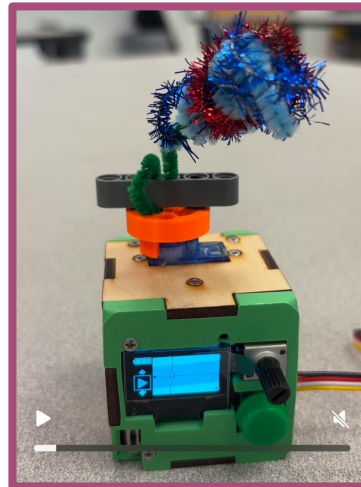
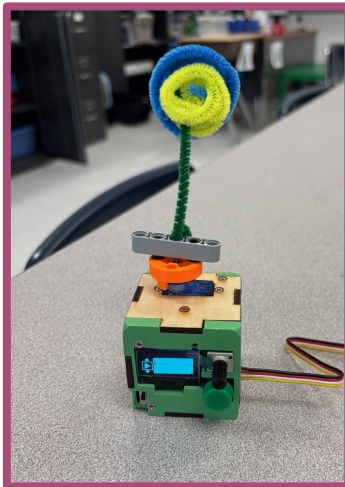
Think Like an Environmentalist:



How will your flower thrive? What adaptations will you add to your flower to ensure that it will thrive in its habitat and environment?

EXAMPLE IDEAS

What are some different ways your flower can move?

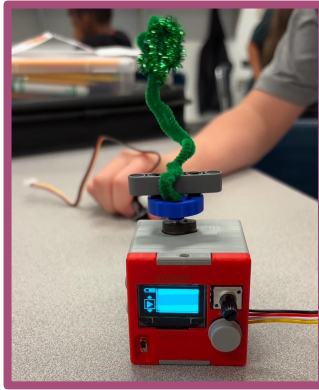


Flip over for more details!

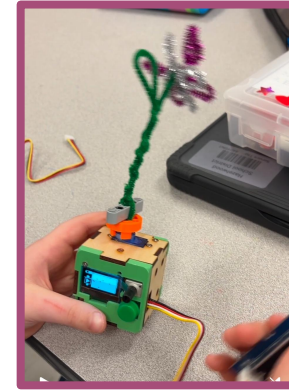
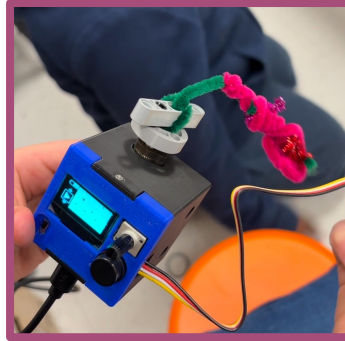




**Design
your
flower!**



BUILD IT!



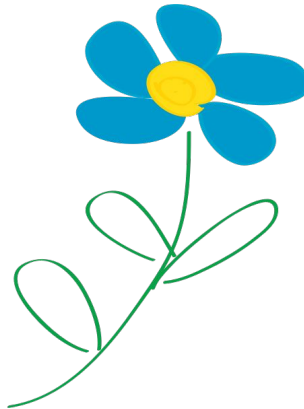
**Attach your
flower to the
Smart Motor.**



CODE IT!

Add data points. Make it move.

**How does the movement you
created help your flower adapt
to its environment?**



Modify It

**Create more plant and animal life
to build a habitat for your flower.**

**How does your flower react to
the other forms of life in its
habitat?**



CHALLENGE YOURSELF

Can you create a flower that is adaptable to different environments- extreme temperatures, different soil compositions, increased or decreased access to water? How can you use different sensors to show its adaptations?