



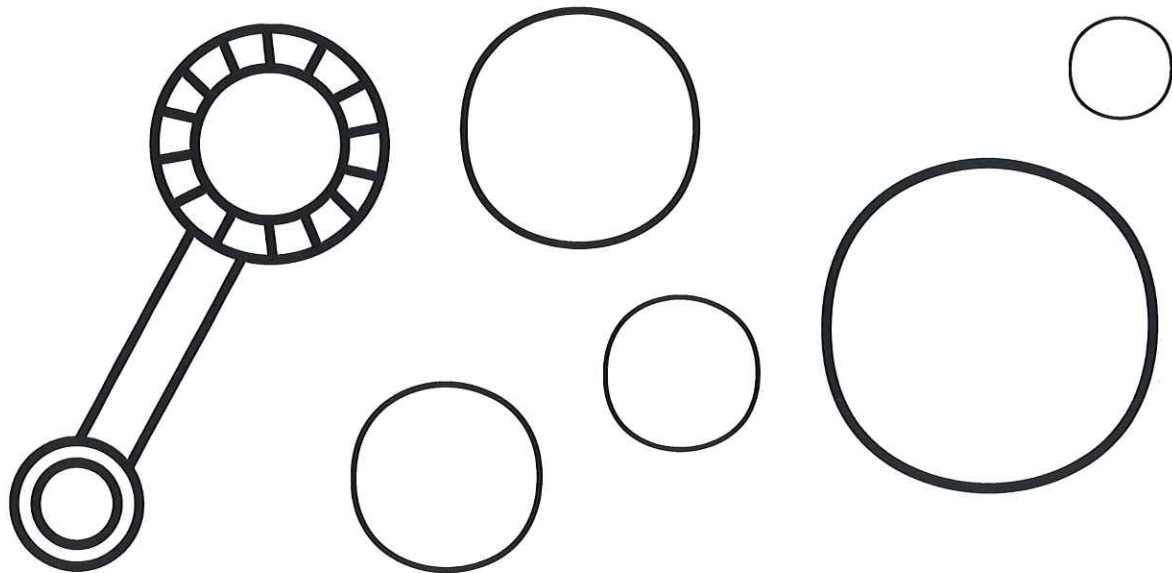
END OF THE YEAR

STEM

BUBBLE WAND
MAKER

carly and Adam





Dear Students,

A toy company has asked you and your team of engineers to design a new bubble wand that makes big bubbles. Your team will design and test 3 bubble wands. Before testing, you will make a prediction about which wand will blow the biggest bubbles.

You will have 10 minutes to plan your design individually and 10 minutes to plan as a team. You will have 30 minutes to construct your bubble wands. You may use no more than 3 pipe cleaners to create each bubble wand. At the end of the 30 minute time limit, you will test your 3 bubble wands to see which one makes the biggest bubbles.

Materials:

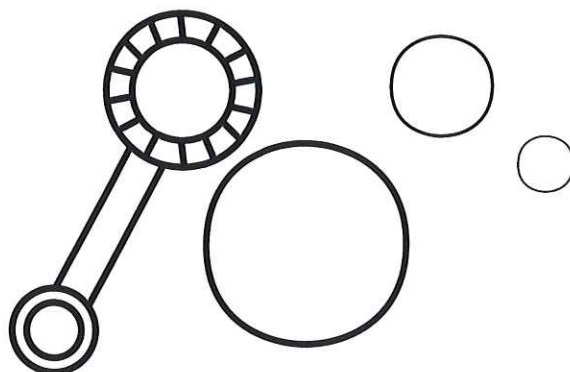
9 pipe cleaners

scissors

Good luck!

Name: _____

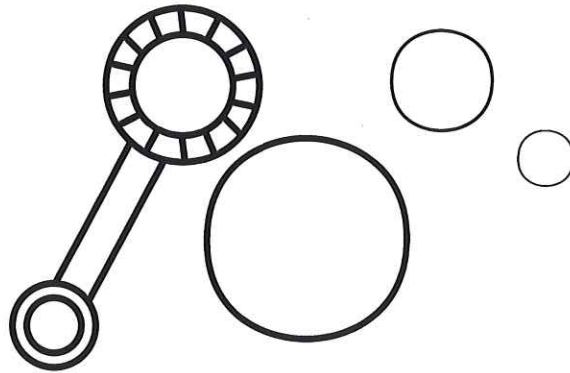
BUBBLE WAND PLANNING



My Design:

Name: _____

BUBBLE WAND PLANNING



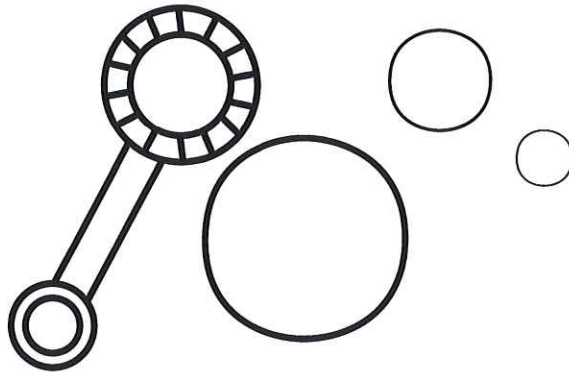
How will you use your materials?

How will you be sure that your bubble wand will make the biggest bubbles?

What possible problems could come up during construction?

Name: _____

BUBBLE WAND PREDICTION



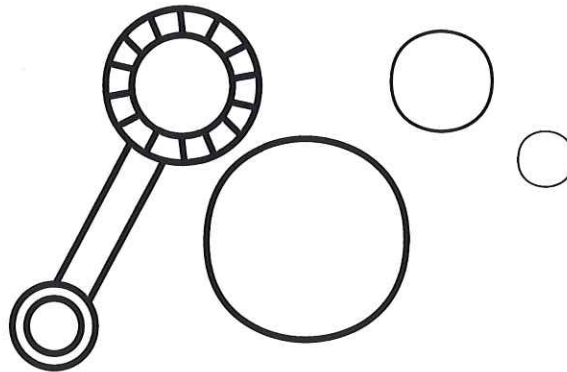
Draw a picture of each of your bubble wand designs.

Bubble Wand #1	Bubble Wand #2	Bubble Wand #3

Which bubble wand do you predict will blow the biggest bubbles? Why?

Name: _____

BUBBLE WAND REFLECTION



What about your design worked well?

If you were to do this STEM challenge again, what would you do differently?

How did your group work together? What was your role in the group?
