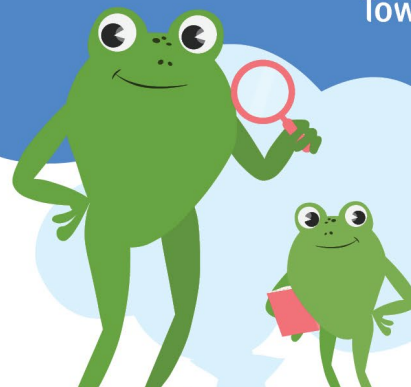


# Curious Kids!

citylibraries



## Bubbles and Bubbles - Challenge Sheet



1

### The Challenge for all Curious Kids

- Mathematics looks at numbers, shapes, patterns and how they link together in the real world.
- Let's explore different ways to create different types of bubbles by designing our own Bubble Wand using different shapes. What will the bubbles be like?

2

### What do we need?

- Pipe cleaners, bubble mixture or dishwashing detergent, glucose syrup, water
- Paper cups, shallow pan, large flat container, wool, straws, paddle pop sticks
- Pens, paper, scissors, sticky tape, glue.

3

### Explore & Create

- What shape? Think about what shape you would like.
- Use the pipe cleaners to create a shape bubble wand.
- Try it with the bubble mixture. Did it work? Modify it and keep trying.
- What happens if you join more pipe cleaners together? Big bubbles?
- Bubble mix: 3 cups water + 1 cup dishwashing liquid + 1/3 cup glucose

4

### Question to Ask & Words to Use

- What are you doing there? How did you do that? What else can you do?
- What might you try instead? Could we ask someone else?
- Shapes, circle, triangle, square, rectangle, big, small, 3D

5

### Show & Share

- Play with your bubble wands with a friend.
- Talk with your friend about what you discovered and about the different shapes you made.
- What else could you do?