Bubbles!

Materials:
- ¼ cup dish soap
- ¼ cup sugar or corn syrup
- 4 cups warm water
- Shallow dish or plate
- Sealable container (holds at least 5 cups)
- Bubbles wands, pipe cleaners, strainers, berry baskets - whatever you think makes bubbles!

Let's make some bubbles!
Mix together the dish soap (1/4 cup), sugar (1/4 cup), and the warm water (4 cups). For best results, allow your bubble solution to sit overnight in a closed container.

Pour the solution into a shallow container or whatever size works best for your bubble making tools!

What's Happening?
Let's take a look of what's happening at the molecular level. The soap and water molecules have created a thin film that makes the outside of the bubble. This film contains two layers of soap and one layer of water in between them. Although this film is incredibly thin, it is strong enough to stretch around the air trapped inside. Air is also made of molecules that are bouncing around inside the bubble. As soon as your bubble fully encloses, it immediately holds a spherical shape. As the air molecules bounce around, the tension of the bubble solution film shrinks to the smallest possible shape for the volume of air. A sphere requires the least amount of energy to hold.

Ask questions like:
What makes bubbles pop?
How big can you make your bubbles?
Can you make the smallest bubble?
What colors do you see? Do the colors change?
Where do the bubbles go? Do they move up or down?
Can you make bubbles stick together? Make a bubble snowman!
Can you hold a bubble? *Hint: bubbles don’t like dry hands