Bubble Bonanza ○ Teacher Notes

In the spirit of the Next Generation Science Standards (NGSS), the bubble blowing will be the Anchoring *Phenomenon*. Allow students to ask their own *driving questions* to direct their learning. Working to try to answer one's own questions is empowering and motivating.

Note that students will be using many of the Practices of NGSS:

NGSS Science and Engineering Practices

- Ask Questions.
- Develop and Use Models.
- Plan and Carry out Investigations.
- Analyze and Interpret Data.
- Use Mathematics and Computational Thinking.
- Construct Explanations.
- Engage in Argument from Evidence - including dialogue.
- Obtain, Evaluate, and Communicate Information.

Supplies Needed

- Tablecloths- one for each table including the supply table.
- Rags for clean up
- Paper towels
- Sinks for water, or pitchers of water
- Various measuring devices, e.g., measuring spoons and cups, plastic beakers
- pipe cleaners
    - if students want to make their own blowers
- construction paper
    - students can blow bubbles onto the paper. Once the bubbles burst, they'll be able to measure the diameter of the bubbles.
- rulers
- timers
- mixing spoons
    - or other things for mixing

- Store bought bubbles with wands, a few brands
    - Teacher may want to pour bubbles into small beakers or plastic cups ((25-50 ml) to minimize waste of the bubble solutions
- Permanent markers for labeling

Students may want to make their own bubble solutions. There are many recipes on the internet, or they may have their own ideas. Possible ingredients:

- Various brands of dish soap (good quality works best, but try others)
- Glycerin in dropper bottles
- Corn Syrup in dropper bottles
- Other thick, non-toxic liquids in dropper bottles
- Sugar
- Salt
- Food coloring

Questions? scamasta@dupageroe.org

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