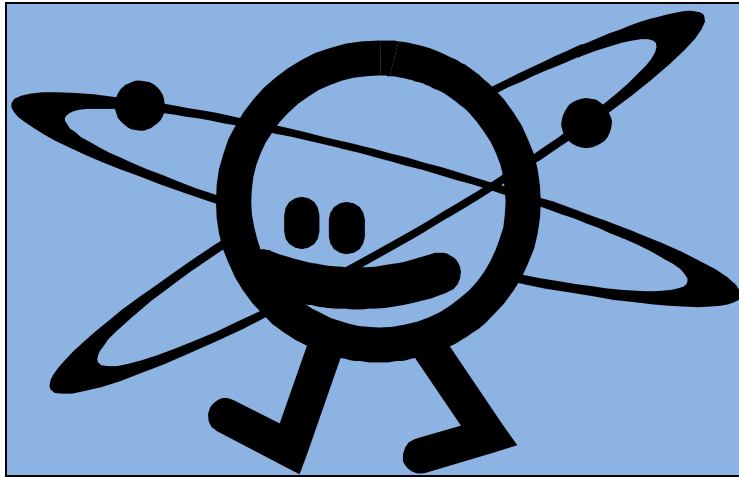


# It Matters

## Post-Visit Activities

Pre-Kindergarten



# Activities

These activities are intended for use after your visit to the Virginia Air and Space Center. Your students should recall the information and demonstration activities from the That's How it Grows program in order to do these activities. All of the activities can be tailored to your specific classroom needs, and the procedures listed are suggestions for teaching

## Activity 1: Matter Memory

Print two copies of pictures showing different states of matter. (Examples of solids: blocks, apples, spoons. Examples of liquids: ocean, orange juice, water. Examples of gases: clouds, sky, full balloon.) Have the students play a game of memory, placing all pairs of pictures face down in random order and taking turns to find matches. To add a challenge to the game, have the students say whether the pictures show a solid, a liquid or a gas. You may even have sorting envelopes, boxes or buckets to put the pairs in.

## Activity 2: Mixing a Solid and a Liquid

Review the three states of matter. Explain to the students that solids and liquids can be mixed. Show them how by mixing some baking soda (solid) with water. Ask them to notice what happens and describe what they see. What has changed, stayed the same, etc.

Show the students a balloon (at least 9") and ask how it gets bigger. Once they say put air in it, blow up the balloon and tell them gas that we breathe out can fill a balloon.

Tell them they are going to do a little experiment to try and blow up the balloon in a different way. Tell them that sometimes when a solid and liquid are mixed together they can make a gas.

You will need a funnel, a plastic water bottle, same 9" balloon from previous demonstration, some vinegar and some baking soda. Place the funnel into the empty balloon and put a tablespoon of baking soda into the balloon. Next, put ¼ cup of vinegar into the plastic bottle. Carefully place only the opening of the balloon over the spout of the bottle, making sure the baking soda in the balloon hangs down the side of the bottle. Lift the balloon up vertically to allow the baking soda to go into the bottle of vinegar and mix. Watch as the solid and liquid mix, and the balloon inflates with the gas given off from the reaction. Show the students that the balloon is filling up with gas, just like it does when we blow into it to fill it up. Explain that scientists use solids, liquids and gases to many experiments, and sometimes to make new solids, liquids or gases.

# Resources

## **Books**

**What is the World Made of?** Kathleen Weidner Zoehfeld **Let's Read and Find out Science, 1999**

**Change It: Solids, Liquids, Gases and You** Adrienne Mason **2006**

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