



STATE YOUR PROPERTIES



Dear Educator:

Thank you for choosing to bring your students to the Science Gallery. When you arrive, check in at the box office on the Planetarium level. For payment, you will be required to know the exact number of students and adults in your group.

Store outerwear, lunches, backpacks, etc, in the cloakroom in the lower level. No backpacks in the gallery. The Manitoba Museum is not responsible for loss or theft; valuables should be left at home or school.

For further information, please visit our website www.manitobamuseum.ca or call 988-0626.

Visiting the Science Gallery

After your program, you will be exploring the Science Gallery. Our exhibits are best enjoyed with the assistance of an adult – teachers are asked to divide the class into smaller groups assigned to adult supervisors.

Please note, washrooms and water fountain are located near the *Numbers Game* exhibit. There is no need to leave the gallery during your visit.

Science Gallery Rules

1. No running, please.
2. Out of respect for other classes and visitors, please use indoor voices.
3. Food and drink are not allowed in the gallery. No gum, please.
4. Before entering the Matrix –the room of mirrors– everyone must remove their shoes and put on the slippers provided. Please put your shoes back on your feet when you leave the Matrix.
5. Please read or listen to instructions before trying out the exhibits.

Class control remains the teacher's responsibility.

Please turn off cell phones or set the ring to silent during programs.

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Grade: 2
Cluster: Properties of Solids,
Liquids & Gases
Duration: 30 minutes

Program Outline:

This multi-media program includes demonstrations about solids, liquids and gasses, and tests students' knowledge of the subject or prepares them for the unit by introducing terms related to the subject matter. The class takes home the product of one of their experiments (called Gak) for further investigation.

Vocabulary

Here is a list of words we use during this program:

Solid, liquid, gas, substance, dissolve, definite shape, water, freeze, property, absorb, carbon dioxide, air.

Pre-visit Suggestions:

1. Discuss examples of solids, liquids and gases found in the classroom.
2. Explain the concept of "taking up space" and "definite shape" versus "no definite shape".

Follow-up Activities

Tumbling Act

Fill a clear container with a 1:1 ratio of water and vinegar. Add some small solids to the liquid (pennies, popcorn kernels, raisins, buttons). Next, pour in a few tablespoons of baking soda to create bubbles of carbon dioxide. The bubbles attach to the solids and cause them to float up to the top of the glass. When the bubbles pop, the solids will "tumble" back down to the bottom again. Weigh the objects before you try them. Do the heavier objects make as many tumbles as the lighter ones?

Gak Attack

Use your Gak to learn more about the characteristics of liquid rubber. Answer the following questions:

Does your Gak bounce? How high?
How long does your Gak stretch?
What happens if you tear the Gak apart?
Does it come back together again?
What other shapes can the Gak take?