



## Virtual PBS KIDS Time: Family Resource Guide

**Hero Elementary** is a new PBS KIDS show about a school of budding superheroes, where kids learn to master their super powers, like flying and teleportation, while exploring science along the way. The show's science curriculum addresses the ability to develop and test ideas, ask questions, predict and observe - skills known to contribute learning in other content areas.

**Big Idea in Science:** We can test materials to find out what properties the materials have.

- *What can we find out about materials?*
- *What test can we do to observe the properties of materials?*



### Today's Activities - Let's Test Materials

#### Objective

Children perform simple **tests** on different materials. They will **observe** the test results; **make sense** of the materials' properties; and **record** findings.

#### Materials

Paper clip, medicine dropper (or short straw), small cup with a little bit of water, paper towel or napkin, wooden craft stick, small piece of foam, piece of cloth, small rock, small sample of tissue paper, small sample of aluminum foil, plastic lid of any type, pencil or crayon

#### Investigation: Hardness

- *What do you think will happen when you scratch a material?*
- *Does the paper clip leave a scratch on the material?*

#### Investigation: Water

- *Does the material absorb the water?*
- *Which materials soaked up water and which ones did not?*



### Learning Goals and Standards

- Objects and substances can be classified by their physical and chemical properties.
- Sort objects by observable properties, such as size, shape, color, temperature (hot/cold), weight (heavy/light) and texture.
- Science inquiry is a multifaceted activity; The process of science includes the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of that data, and the communication of this evaluation.

Contact the WUCF Education Team at [wucfeducate@wucf.org](mailto:wucfeducate@wucf.org). Generous support from:





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### Properties of Materials



#### Video: The Blob

Sparks' Crew needs to identify the properties of The Blob in order to stop it and save the day.

#### Let's Test Matter Investigations Handout

Use this handout to test guide investigations about the properties of different materials.

#### Lots of Liquids Investigations Handout

Use this handout to test the properties of different liquids.



Go beyond by using the same materials from today's session to test for the following properties!

#### Investigation: Light

- What do you notice when you shine a light on this material?
- Which materials let light shine through?



#### Investigation: Sink or Float

- Does the material sink or float?
- Which materials can float in water?
- Which ones cannot float in water?

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### Hero Elementary: Super Seasons Snapshots

Learn about the seasons while capturing some photos of animals and their activities: <https://to.pbs.org/3fdrXPW>.

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