

F CUSED FIELD TRIPS

PLEASE NOTE: Parts of Level 1 and all of Level 4 are currently under renovation while we prepare your next scientific adventures! For up-to-date construction information, please visit azscience.org/construction_updates.

Eighth Grade Student Investigation

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This Investigation contains activities on a variety of topics found throughout the Center. Exhibits are also sometimes removed temporarily for repair or refurbishment, or may be in use by other groups, so be prepared to be flexible.

Investigation Activities

Level 1: All About You Gallery, in the Steele Gallery - Coming Soon! The W.O.N.D.E.R. Center - Coming Soon!

Coming soon! Find out just what makes you, YOU!

Level 2: Get Charged Up Gallery

Downhill Race

Mass is the measure of how much matter an object is made of. Newton's Second Law of Motion states that the acceleration of an object increases with increased force or decreased mass.

What to do:

Distribution of mass is important in this experiment. Adjust the gold weights on the two wheels so that one has the weights all towards the inner and the other wheel has them all towards the outer.

Before you roll them down the ramp, make a prediction:

Which wheel do you think will win the race? _____

Start the wheels at the top of the ramp and let go at exactly the same time. Which wheel wins? _____

Why? _____

Both wheels have the same mass and the same energy, but the wheel that has the weights placed towards the outer part of the wheel uses more energy to get started and has less to propel it forward.

Level 4: Solarville, in the APS Gallery

Coming soon! This new, brightly-colored, eco-friendly gallery will offer hands-on exhibits presenting solar energy in a whole new light!

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