

Rainwater Runoff



Created by:	Tom Jackson
Subject:	Science
Standard:	MS-ETS1-3

Lesson Resources

Inform: Read

Hand 2 Mind Rainwater Runoff

<http://www.hand2mind.com/item/stem-in-action-rainwater-runoff-design-challenge/6767>

This kit is the basis for the unit.

Learning Standard

Science

Engineering Design - MS-ETS1-3

Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.

Evidence of Learning

Students will create

Students will take the information from their tests to layer and combine the soils to create a model subsoil for the rain garden. The Hand2Mind kit has a set of criteria and constraints. One of the constraints is cost. Each soil type costs a different amount of money. They have to calculate the volume of the garden they will build and the percent of each type of soil. They test their model and redesign as necessary. The students then present their design to the "city council" of Lakeside.

© 2014-2015 EdCourage, Inc. and ThemeSpark™. Patent Pending. All rights reserved.

This work is licensed under a [Creative Commons Attribution-NonCommercial 4.0 International License](#).