

Current Lesson Materials – High School: Calorimeters, Littlefoot's Ride, and Biofuel from Algae

We have developed three sample lessons for high school science that span chemistry, physics, and biology. Each of these lessons includes a thorough lesson plan and a set of handouts that you can customize to your needs. The lesson plans explain the materials you will need and how to prepare for part of the lesson. An appendix describes the alignment of the lesson with 2009 Oregon Science Standards and the new Oregon Science Standards adopted in 2014 ([Next Generation Science Standards](#)).

Calorimeters

[HS Calorimeter Changes v1.4](#)

[HS Calorimeter Engineering Design Handout v1.1](#)

[HS Calorimeter Evaluation and Improvement Answers Resource v1.1](#)

[HS Calorimeter Evaluation and Improvement Handout v1.1](#)

[HS Calorimeter Exploration Handout v1.1](#)

[HS Calorimeter Lesson Plan Resource v1.4](#)

[HS Calorimeter Reading Handout v1.1](#)

[HS Calorimeter Vocab Alert Handout v1.1](#)

[HS Calorimeter Wait What Just Happened Answers Resource v1.1](#)

[HS Calorimeter Wait What Just Happened Handout v1.1](#)

Additional Materials

[MSDS - Potassium Chloride](#)

Littlefoot's Ride

[HS Littlefoot's Ride-Changes v 1.5](#)

[HS Littlefoot's Ride Coaster Design handout v 1.5](#)

[HS Littlefoot's Ride Coaster Exploration Answer Key Resource v 1.5](#)

[HS Littlefoot's Ride Coaster Exploration Handout v 1.5](#)

[HS Littlefoot's Ride Lesson Plan v 1.5](#)

[HS Littlefoot's Roller Coaster Physics 101 Article v 1.5](#)

[HS Littlefoot's Ride Track Building Instructions v 1.5](#)

[HS Littlefoots Ride Vocab Alert Handout v1.1](#)

Biofuel from Algae

[HS Biofuel from Algae Article Handout v1.1](#)

[HS Biofuel from Algae Changes v1.4](#)

[HS Biofuel from Algae Data Collection Methods Handout v1.1](#)

[HS Biofuel from Algae Data Worksheet v1.1](#)

[HS Biofuel from Algae Design Answer Key v1.1](#)

[HS Biofuel from Algae Design Handout v1.1](#)

[HS Biofuel from Algae Lesson Plan v1.4](#)

[HS Biofuel from Algae Light Fixture Construction Instructions v1.1](#)

[HS Biofuel from Algae Machine Set Up Instructions v1.1](#)

[HS Biofuel from Algae Vocab Alert Handout v1.1](#)

Additional Materials

[Going Green Article](#)

[MSDS - Miracle Gro](#)