

## Current Lesson Materials – Middle School: Bioswales, Frankenplants, and The Ultimate Speed Challenge

We have developed three sample lessons for middle school science that span earth & space science, life science, and physical science. 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](#)).

### Bioswales

[MS Bioswale Article Handout v1.1](#)  
[MS Bioswale Changes v1.4](#)  
[MS Bioswale Data Table Handout v1.1](#)  
[MS Bioswale Data Analysis Handout v1.1](#)  
[MS Bioswale Engineering Design Handout v1.1](#)  
[MS Bioswale Exploration Handout v1.1](#)  
[MS Bioswale Filled Data Table Handout v1.1](#)  
[MS Bioswale Lesson Plan Resource v1.4](#)  
[MS Bioswale Vocab Alert Handout v1.1](#)

### Additional Materials

[MSDS Pelletized Lime](#)

### Frankenplants

[MS Frankenplants Changes v1.4](#)  
[MS Frankenplants Engineering Design Class Results Resource Revised v1.1](#)  
[MS Frankenplants Engineering Design Handout Answer Sheet v1.1](#)  
[MS Frankenplants Engineering Design Handout v1.1](#)  
[MS Frankenplants Exploration A Handout v1.1](#)  
[MS Frankenplants Exploration Answer Sheet Resource v1.1](#)  
[MS Frankenplants Exploration B Handout v1.1](#)  
[MS Frankenplants Lesson Plan Resource v1.4](#)  
[MS Frankenplants Reading Handout v1.1](#)  
[MS Frankenplants Tomato Graft Planting Guide v1.1](#)  
[MS Frankenplants Vocab Alert v1.1](#)

### Additional Materials

[MSDS - Miracle Gro](#)  
[MSDS Osmocote](#)

### The Ultimate Speed Challenge

[MS TUSC Article Handout v1.1](#)  
[MS TUSC Building Instructions Handout \(car\) v1.1](#)  
[MS TUSC Building Instructions Handout \(ramp\) v1.1](#)  
[MS TUSC Changes v1.4](#)  
[MS TUSC Class Data Table Resource v1.1](#)  
[MS TUSC Design Activity Handout v1.1](#)  
[MS TUSC Exploration Activity Completed Resource v1.1](#)  
[MS TUSC Exploration Activity Handout v1.1](#)  
[MS TUSC Exploration Activity with Data Table Resource v1.1](#)

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[MS TUSC Lesson Plan Resource v1.4](#)

[MS TUSC Short Exploration Activity Answer Key Resource v1.1](#)

[MS TUSC Short Exploration Activity Handout v1.1](#)

[MS TUSC Swerve Guide Handout v1.1](#)

[MS TUSC Vocab Alert Handout v1.1](#)

[Additional Materials](#)

[How to Build Your Coaster Car for Cheap](#)

[How to Build Your LEGO Coaster Car](#)