

WORKSHOP: Earth Science Outside: LANDFORMS of the Wasatch Front
OPTIONAL before the workshop.

Your Name:

READING ASSIGNMENT for Earth Science Outside= Chapter 7 (p. 169 – 199) of National Research Council. (2012). *A Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas*. Committee on a Conceptual Framework for New K-12 Science Education Standards. Board on Science Education, Division of Behavioral and Social Sciences and Education. Washington, DC: The National Academies Press.

INSTRUCTIONS:

There are several ways to access this chapter. It's 33 pages long.

Access via Earth Science Education's web site at <http://www.earthscienceeducation.org> . Then click on LANDFORMS links <http://www.earthscienceeducation.org/aaaSLCoCourseInfo/y17-LANDFORMS-web-links-to-ESE-info.htm> and it's listed there.

Or access the chapter via the National Research Council web site. <https://www.nap.edu/catalog/13165/a-framework-for-k-12-science-education-practices-crosscutting-concepts> . There's no charge to download the entire book. It's available to buy in paperback and eBook formats.

We suggest you read the entire 33 pages... but first read the coaching by Harvard Health <http://www.earthscienceeducation.org/aaaSLCoCourseInfo/y17-HarvardHealth-BetterLearning-DropHighlighter.pdf>

SECTIONS ASSIGNED during LANDFORMS workshop with worksheets or alternative reflective writing:

ESS2.B = Plate tectonics	Read for Day 2 of workshop
ESS2.C = Roles of water	Read for Day 3 of workshop
ESS2.D = Weather and climate	Read for Day 4 of workshop
ESS3 = Core Idea: Earth and Human Activity	
ESS3.B = Natural Hazards	Read for Day 5 of workshop
ESS3.C = Human impacts on Earth systems	Read for Day 5 of workshop
ESS3.D = Global climate change	Read for Day 5 of workshop

OPTIONAL READING BEFORE THE WORKSHOP!!

The reading worksheets / assignment due at the end of the workshop are based on an approach to reading: "4 science-backed ways toward better learning... drop the highlighter." With respect to USOE and university credit, this reading counts 20% of grade. In-class and 3-D thinking map assignments add to the remaining 80%. For the day by day reading:

- Over the top (complete, insightful, specific, with examples, nuanced) SUU and WSU = A
- Excellent effort (80% completion) and expressions of understanding. SUU and WSU = B
- Good effort (at least 70% complete with expressions of critical thinking). SUU and WSU = C
- Good enough (at least 50% complete) for USBE credit.
- Minimal 25% complete (sufficient for USBE recertification)

PURPOSE of this reading: appreciate the scope of knowledge within this "core" discipline of science, meaning the scope of knowledge within Earth and Space Sciences.

PURPOSE of the worksheets or reflective writing (handed out in class): (1) slow down and reflect upon your content knowledge of Earth and Space Sciences and (2) image how you can relate content knowledge to visible LANDFORMS of the WASATCH FRONT.