FIVE KEY COMPONENTS TO SUCCESSFUL & ENGAGING ONLINE LABS
PRESENT & REFLECT
OLC INNOVATE, JUNE 26, 2020
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A BIT ABOUT ME…

5 KEY COMPONENTS OF LABS

LAB DESIGN
• Course Competencies/Outcomes
• Lab Goal(s)
  • Skill Demonstration
  • Content

DESIGN
RELEVANT
FEEDBACK
TACTILE
INSTRUCTION
LAB DESIGN: GLACIER LAB EXAMPLE

TACTILE EXPERIENCES: SKILL DEMONSTRATION
- Detailed Explanations
- Photo Documentation
- Handout or direct submission
- Video Documentation
- Point out length expectations
- Provide examples/instructions

TACTILE EXPERIENCES: SIMULATIONS

TACTILE EXPERIENCES: APPLICATIONS
TACTILE EXPERIENCES: LAB KITS


Objectives:
- Investigate the concrete properties of materials
- Compare and contrast different material samples
- Practice identifying common materials based on physical properties

Laboratory Materials Needed:
- Mineral specimens 1-3 (from your lab kit)
- Small box orangling plane
- Simple tool
- Clay formula
- Copper pipe
- Shapes
- Magnets
- Blank suit

Pre-Lab Assignment
Prior to lab, read Chapter 2 sections 2.3 in your textbook.

TACTILE

bit.ly/123_GeoLab

RELEVANT: PHYSICS

bit.ly/123_PhysLab

RELEVANT: WEATHER & CLIMATE

bit.ly/123_WCLab

RELEVANT: EARTH SCIENCE

bit.ly/123_SERC_GE

bit.ly/123_GoogleGE

Looking For Ideas? Check Out:

LOTUS-Rooted Collaboration (Shoemaker) 6/26/20

bit.ly/123_Geolab

bit.ly/123_PhysLab

bit.ly/123_WCLab

bit.ly/123_SERC_GE

bit.ly/123_GoogleGE

MYTHBUSTERS: BUDYANCY

bii.ly/123_PhyLab

RELEVANT:

bit.ly/123_GeoLab

bii.ly/123_SERC_GE

bii.ly/123_GoogleGE

bii.ly/123_PhysLab

bii.ly/123_WCLab

9

10

11

12
I love hiking at Devil’s Lake! The view from the cliffs is spectacular. Did you know...

Sample #40 is Quartzite. The rocks making up the cliffs are the Baraboo Quartzite!

• Identify potential hazards
• Kid-friendly or not?
• Text, video, images
OTHER IMPORTANT FACTORS

• Accessibility → Learner Needs & Technology
• Scaffold course activities to allow students to grow as learners
• Multiple Interactions → Student-Content, Student-Student, Student-Instructor
• Build a Community of Learners
• Instructor Presence
• Course Reviews & Feedback

REFLECTION:

What tools, techniques and tips will you be implementing in your online labs?

bit.ly/123_Reflections

THANK YOU!

Dixie Burns
Elizabeth Reinke
Jeannine Szczech
Matthew Lazzara