

Thermos Design Challenge

Amber Miller

UNIT- Chemical Interactions

GRADE- 8th

STEM

Science- Heat/ Energy Transfer

Technology- Research/ Kahoot Review

Engineering- Construction/ Plan

Math- Dimensions/ Calculating Heat

Day 1 (Engage)- Prior Knowledge/ Inquiry

Day 2 (Explore)- Research/ Introduction

Day 3 (Explore)- Directions/ Brainstorming

Day 4 (Explore)- Constructing Design

Day 5 (Explore)- Testing Design

Day 6 (Explore)- Work Day (modifications and retesting)

Day 7 (Explore)- Work Day (Presentations/ LOGOs)

Day 8 (Explore)- Work Day (Finalizing Project)

Day 9- Presentations/ Turn in all work

Explain- Self Reflection

Elaborate- Investigation 7- Cooler Design

Evaluate- Rubric for Project/ I-check

MS-PS3-4: Plan an investigation to determine the relationships among the energy transferred and the change in the average kinetic energy of the particles as measured by the temperature of the sample.

