

Assignment Sheet

Week of February 19th

Name _____

	Mon	Tue	Wed	Thur	Fri
Science	President's Day Holiday	Forces in Fluids 11.2 Floating & Sinking p.424-429 Assessments p. 429	Forces in Fluids Engineering Design Principle #5 Prototype your Solution	Forces in Fluids 11.3 Pascal's Principal p.432-436 Assessments p. 436	Forces in Fluids Engineering Design Principle #6 Test & Evaluate your Prototype
Language Arts	Read 30 Min <u>Literary Essay</u> President's Day Holiday	Read 30 Min <u>Literary Essay</u> Present Highlands Road Memory Lane Project	Read 30 Min <u>Literary Essay</u> Present Highlands Road Memory Lane Project	Read 30 Min <u>Position Paper</u> Debating Positions to Develop a Complex Argument Choose a topic for a Position Paper	Read 30 Min <u>Position Paper</u> Flash Drafting a Position Paper
Social Studies	President's Day Holiday	Jefferson Era History of Monterey Park Project	Jefferson Era 8.2 Louisiana Purchase p. 295-301 Inquiry Journal p. 202-207	Jefferson Era 8.3 Time of Conflict p. 295-301 Inquiry Journal Skip for 8.3	Jefferson Era History of Monterey Park Presentation

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ENGINEERING DESIGN PROCESS



1. **Define**
The problem
2. **Identify**
constraints on your solution (Time, money, materials and criteria for success)
3. **Brainstorm**
Multiple solution for the problem
4. **Select**
The most promising solution
5. **Prototype**
Your solution
6. **Test**
and evaluate your prototype
7. **Iterate**
to improve your prototype
8. **Communicate**
Your Solution

Checking for Understanding

Students go through the engineering design process to build a car powered by a mouse trap car. They will elaborate on their goals for the car (Distance or speed) and design a car based on the goals that they have set. The design process will be documented that demonstrates their understanding of the engineering process.

NEXT GENERATION SCIENCE STANDARDS

NGSS Practices - Blue - SEP - (Sci Eng. Practices)

1. Asking Questions
2. Defining Problems.
3. Using Models
4. Constructing Explanations Designing Solutions
5. Conducting Investigations
6. Arguing from Evidence
7. Analyzing Data
8. Using Mathematics
9. Communicating Information.

NGSS Crosscutting Concepts - Green

1. Patterns
2. Causation – Cause and Effect
3. Scale
4. Systems
5. Energy
6. Structure and Function
7. Stability and Change.

Disciplinary Core Ideas - Orange

1. Physical Science
2. Life Science
3. Engineering and Technology
4. Math
5. Language Arts