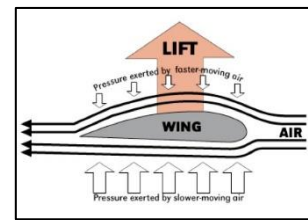


Jrac Science

Weekly Plans for

Monday, January 27, 2025 – Friday, February 14, 2025



Monday: 1/27/25

Plan to: Start new *States of Matter unit* with LAB: “Thermal Expansion: It’s kind of a “big” deal”

Target: Students will investigate the ideas of Thermal expansion and the Kinetic Theory of Matter.

Due today: Nothing

Assignments: Finish LAB: “Thermal Expansion: It’s kind of a “big” deal”

Tuesday: 1/28/25

Plan to: Discuss yesterday’s Lab, and begin unit discussion by taking notes on Thermal Expansion and the KTM

Target: Students will gain an understanding of the Kinetic Theory of Matter by participating with a classroom discussion.

Due today: LAB: “Thermal Expansion: It’s kind of a “big” deal”

Assignments: None

Wednesday: 1/29/25 – 2nd Ski & Board Club Trip

Plan to: Discuss and finish notes on the 5 states matter and then begin homework

Target: Students will gain a better understanding of the phase changes by participating in a classroom discussion while taking notes.

Due today: Nothing

Assignments: READ chapter 14 section 1, Complete Wks: “14-1: Matter & Thermal Energy” and Watch helpful videos listed on Schoology

Thursday: 1/30/25

Plan to: Start notes on phase changes and understanding Heating/Cooling Curves.

Target: Students will gain a better understanding of the phase changes by participating in a classroom discussion while taking notes.

Due today: Wks: “14-1: Matter & Thermal Energy”

Assignments: Review Heating/ Cooling curve calculations and finish any practice problems that were not finished in class.

Friday: 1/31/25

Plan to: Finish notes, Work together in class on Wks: “From Ice to Water to Vapor” then work on Assignment.

Target: Students will gain a better understanding of the energy needed and used during the phase change process.

Due Today: Any practice problems that were not finished in class

Assignments: Finish Wks “Changing States of Matter”

Monday: 2/3/25

Plan to: Review Wks: “Changing States of Matter” and take **STATES OF MATTER Assessment Quiz**– ((Only on States of Matter, Phase Change terms, and your Reading from the book (*NO Phase Change Calculations yet*)))

Target: Students will gain a better understanding of the energy needed and used during the phase change process.

Due Today: Wks “Changing States of Matter”

Assignments: Watch Pre Lab video for tomorrow’s lab

Tuesday: 2/4/25

Plan to: Collect Data for the LAB: “Finding the Melting point of Naphthalene (C₁₀H₈)”

Target: Students will gain a better understanding of the energy needed and used during the phase change process.

Due Today: Nothing

Assignments: Finish Lab questions and calculations after Graph is completed, and Watch Pre Lab video for Monday’s lab

Wednesday: 2/5/25 – 3rd Ski & Board Club Trip

Plan to: LAB: Why do we salt the Roads?

Target: Students will gain a better understanding of the effect a solute has on the Freezing point.

Due today: Graph and Lab questions/ calculations for the Naphthalene Lab.

Assignments: Finish Lab questions and Graph for LAB: Why do we salt the Roads? (Due Monday 2/27/23)

Thursday: 2/6/25

Plan to: Review yesterday's Lab and discuss Freezing point Depressions

Target: Students will gain a better understanding of the effect a solute has on the Freezing point.

Due today: Nothing

Assignments: Watch Pre-LAB Video and start thinking about how to answer the Pre-Lab Questions. (ONLY STUDENTS THAT WATCH THE PRELAB VIDEO AND FOLLOW THE INSTRUCTIONS WILL BE PERMITTED TO PARTICIPATE IN TOMORROW'S LAB!)

Friday: 2/7/25

Plan to: Lab: "Sweet Treats are made of these! Who am I to disagree?"

Target: Students will gain a better understanding of the effect a solute has on the Freezing point.

Due today: LAB Sheet: Why do we salt the Roads?

Assignments: Finish Lab questions for Lab: "Sweet Treats are made of these! Who am I to disagree?"

*** In order to participate in this Reward LAB, You must have completed 90% of all the previous work for this unit AND been in attendance during this unit at least 90% of the time (VERY few exceptions will be made to this) Those that fail to meet these expectations will instead use this time today to complete their missing work for partial credit while the rest of the class completes the SWEET lab!

Monday: 2/10/25

Plan to: Discuss Bernoulli's Principle notes and demonstration

Target: Students will gain a better understanding of the principles of fluids.

Due Today: Nothing

Assignments: Read section 14-2 & 14-3 in your science book

Tuesday: 2/11/25

Plan to: Continue discussing Bernoulli's, and Archimedes', and Pascal's Principles.

Target: Students will gain a better understanding of the principles of fluids.

Due today: Nothing

Assignments: Complete wks: "14 2/3: Uses of Fluids & Behavior of Gases"

Wednesday: 2/12/25

Plan to: Finish our notes on the Principles of Fluids (Archimedes & Pascals)

Target: Students will learn the process on how to use one formula in several different ways.

Due Today: wks: "14 2/3: Uses of Fluids & Behavior of Gases"

Assignments: Watch the Science of Disney Imagineering: Fluids and Complete worksheet: "Fluids by Disney"

Thursday: 2/13/25

Plan to: Review Pascal's Problems and how to rearrange an equation to isolate a variable, then work on assignment.

Target: Students will gain a better understanding of the principles of fluids.

Due today: Wks: Fluids by Disney

Assignments: Wks "Pascal's Practice/ Isolate"

Friday: 2/14/25 – No School

Saturday: 2/15/25 – Science Olympiad in person PITT Invitational Tournament

