



Jrac Science

Weekly Plans for

Monday, February 26, 2024 – Tuesday, March 19, 2024



Monday: 2/26/24

Plan to: Review and finish Notes on Temperature Scales and discuss how to convert between scales

Target: Students will apply their knowledge to better understanding a connection between the different temperature scales.

Due Today: Finish SNB reflection paper. (Due by the end of the school day on Monday 2/26/24)

Assignments: Review Your S.O.M. Test, have a parent sign it and return it by Friday 3/1/24

Tuesday: 2/27/24

Plan to: Review Temperature Scales and Then Discuss how to convert between scales (Without Google or Alexa!)

Target: Students will apply their knowledge to better understanding a connection between the different temperature scales.

Due Today: Nothing

Assignments: FINISH Wks: “Don’t be afraid. It’s only Temperature Conversions”

Wednesday: 2/28/24

Plan to: Review Homework and then Begin Video “Chasing the Ultimate Freezing Point: Absolute Zero”

Target: Students will gain an understanding of the challenges faced by many scientist as they attempt to reach absolute zero.

Due today: Wks: “Don’t be afraid. It’s only Temperature Conversions”

Assignments: Finish watching the video (Found on my website – Thermal Energy Unit) and complete the wks: “Absolute Zero”

Thursday: 2/29/24 – LEAP YEAR DAY!

Plan to: Discuss how to Calculate Thermal Energy.

Target: Students will demonstrate their understanding of the concepts of Energy through a formative assessment.

Due today: Wks: “Absolute Zero”

Assignments: Complete Wks: “Thermal Energy”



It takes 365 days 5 hours 48 minutes and 56 seconds for the Earth to orbit the Sun (NOT 365 days!) Scan the QR code to learn more.



Friday: 3/1/24

Plan to: Take notes on the Conduction, Convection, and Radiation.

Target: Students will start to gain a better understanding of these terms

Due today: Wks: “Thermal Energy”

Assignments: Watch Helpful Video #4, #5, and #6 on the Thermal Energy Unit Page THEN Complete wks: “5-1/2: Temperature, Thermal Energy and Heat”

Monday: 3/4/24

Plan to: LAB: “Equilibrium: Conduction Junction”

Target: Students will gain a better understanding Energy transfer through Conduction by completing this lab

Due today: Wks: “5-1/2: Temperature, Thermal Energy and Heat”

Assignments: Finish LAB Sheet:” Equilibrium: Conduction Junction” (Due by the end of the school day on Tomorrow 3/5/24)

Tuesday: 3/5/24

Plan to: Lab: “Convection Cells believe: what goes around, comes around”

Target: Students will gain a better understanding of Energy transfer through convection by completing this lab

Due today: LAB Sheet with GRAPH:” Equilibrium: Conduction Junction”

Assignments: Finish Lab Sheet: “Convection Cells believe: what goes around comes around”

Wednesday: 3/6/24

Plan to: Lab: Absorption of Radiant Energy

Target: Students will gain a better understanding of Energy transfer through Radiant Energy by completing this lab

Due today: Lab Sheet: “Convection Cells believe: what goes around comes around”

Assignments: Finish Absorption of Radiant Energy Lab GRAPH & Questions

Thursday: 3/7/24

Plan to: Begin Online **Individual** Lab: “Electromagnetic Spectrum Investigation” – **PART 1 (Wave Basics)**

Target: Students will gain a better understanding of Waves, Wave Energy and the EMS by completing this lab

Due today: Nothing

Assignments: Continue to work on Part 1 (Wave Basics) and Start working on Study Guide

Friday: 3/8/24

Plan to: Continue to work on online Lab: “Electromagnetic Spectrum Investigation” – **Part 2 (EMS)**

Target: Students will gain a better understanding of Waves, Wave Energy and the EMS by completing this lab

Due today: Lab: Absorption of Radiant Energy Lab sheet questions & GRAPH

Assignments: Finish online Lab: “Electromagnetic Spectrum Investigation”

Monday: 3/11/24

Plan to: Review & discuss the online Lab: Electromagnetic Spectrum Investigation (Waves & EMS)

Target: Students will gain a better understanding of Waves and the EMS

Due today: Lab: “Electromagnetic Spectrum Investigation”

Assignments: Continue working on the Energy Study guide. Watch Pre-Lab Video on BAND

Tuesday: 3/12/24

Plan to: Start Lab Project: “The Heat is On!” – Day 1 (Intro – Groups – Research)

Target: Students will gain a better understanding Energy transfer through Conduction by completing this lab

Due today: Nothing

Assignments: Complete testing procedures and prepare to test your insulating material tomorrow. Start working on Study Guide.

Wednesday: 3/13/24

Plan to: Continue Lab Project: “The Heat is On!” – Day 2 (Run Insulator Tests – Data Analysis – Start Device Design)

Target: Students will gain a better understanding Energy transfer through Conduction by completing this lab

Due today: Nothing

Assignments: Complete Insulator Data Analysis and gather materials for tomorrow’s construction.

Thursday: 3/14/24

Plan to: Continue Lab Project: “The Heat is On!” – Day 3 (Construction – Logo/Marketing design)

Target: Students will gain a better understanding Energy transfer through Conduction by completing this lab

Due today: Nothing

Assignments: Continue to work on Marketing/ Advertisement of your product.

Friday: 3/15/24

Plan to: Continue Lab Project: “The Heat is On!” – Day 4 (Construction – Logo/Marketing design)

Target: Students will gain a better understanding Energy transfer through Conduction by completing this lab

Due today: Nothing

Assignments: Finish work on Marketing/ Advertisement of your product.

Saturday: 3/16/24- Southwestern Pennsylvania Regional Science Olympiad Tournament

Sunday: 3/17/24-St. Patrick’s Day



Look for a bonus opportunity hidden in your daily Schoology plans. (Found in Tomorrow’s Daily Plans) If you are lucky, you will find it, do it, and turn it in before time runs out and claim your reward.

Monday: 3/18/24

Plan to: Final Day: Lab Project: “The Heat is On!” – Day 5 (Product Testing/ Judging) Study and review for Energy Test.

Target: Students will Review their knowledge of Energy as they prepare for their summative assessment.

Due today: Study Guide

Assignments: Study and Review for the Test.

Tuesday: 3/19/24 - TEST

Plan to: Take the Thermal Energy Test

Target: Students will demonstrate their knowledge of Energy on the summative assessment.

Due today: Nothing

Assignments: None

Important Upcoming Dates in the near future:

- 3/21/24 = END of the 3rd nine weeks
- 3/28/24 – 4/2/24 = Spring break! – NO SCHOOL
- 4/22/24 – 4-26/24 = ELA PSSA testing window
- 4/29/24 – 5/3/24 = MATH and SCIENCE PSSA testing window
- 5/13/24 -5/17/24 = ALGEBRA Keystone Testing Window
- 5/18/24 = 8th Grade Farewell Dinner Dance
- 5/17/24 – 5/24/24 = 8th grade Rube Goldberg Competition
- 5/27/24 = Memorial Day – NO SCHOOL
- 5/28/24 = Kennywood Field Trip
- 5/29/24 = 8th grade Charity Dodgeball Tournament
- 5/30/24 = Step Up Day (High School Transition Day)
- 5/31/24 = YOUR LAST DAY AS A MIDDLE SCHOOL STUDENT!

