

Lesson plans May 20 to May 24, 2019

Mr. Woolslayer Room 200

Monday B day

8:05 to 8:49 Physics II (coverage by sub)/Keystone Literature

Objective: Students will investigate index of refraction values for glass, plexi-glass and water.

PA standard: 3.2.P.B1

Activity Index of refraction lab continued

Evaluation: Completed Ray diagrams

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

8:53-9:34 Prep/ Keystone Literature

9:38- 10:19 General Physical Science: (coverage by sub)/ Keystone Literature

Students will describe how waves transmit energy through a wave. Students will identify the parts and why of waves.

PA standard: 3.2.P.B1

Activity Notes, demonstrations and video clips on waves.

Evaluation Notebook check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

10:23 to 11:04 General Physical Science:

Students will describe how waves transmit energy through a wave. Students will identify the parts and why of waves.

PA standard: 3.2.P.B1

Activity Notes, demonstrations and video clips on waves.

Evaluation Notebook check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

11:08 to 11:49 Study hall in the Room 200

11:49 to 12:19 Eat B Lunch

12:23 to 1:04 C lunch Duty

1:08 to 1:49 Physics

Objective: Students describe the laws of thermodynamics

PA standard: 3.2.P.B1

Activity: Demonstrations, discussion and video clips on temperature, heat and the laws of thermodynamics.

Evaluation: Notebook check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

1:53 to 2:34 Physics lab

Objective: Students will measure the heat of fusion of ice

PA standard: 3.2.P.B1

Activity: Heat of fusion lab

Evaluation: Completed lab report and calculations on the heat of fusion of Ice.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow Catapult

2:38 to 3:08 Sci Fi club

3:08 to 3:30 Gym Lobby Duty.

Tuesday A

8:05 to 8:49 Physics II

Objective: Students will investigate lens and mirrors for focal length, center of curvature, image distance and type, and magnification.

PA standard: 3.2.P.B1

Activity Light bench lab

Evaluation: Completed ray diagrams, measurements and calculations;

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

8:53-9:34 Prep

9:38- 10:19 General Physical Science

Students will understand the conservation of energy and the concept of entropy.

PA standard: 3.2.P.B1

Activity: notes, demonstrations and discussion on the conservation of energy

Evaluation Notebook check/

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

10:23 to 11:04 General Physical Science

Students will understand the conservation of energy and the concept of entropy.

PA standard: 3.2.P.B1

Activity: notes, demonstrations and discussion on the conservation of energy/ 1 second timer lab

Evaluation Notebook check/

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

11:08 to 11:49 Study hall in the Room 200

11:49 to 12:19 Eat B Lunch

12:23 to 1:04 C lunch Duty

1:08 to 1:49 Physics

Objective: Students understand the difference between heat and temperature and how each are measured.

PA standard: 3.2.P.B1

Activity: Final review of Ch 9 and Ch 10.

Evaluation: Review note check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. **Extra credit: Engineering project:** Marsh mellow catapult.

1:53 to 2:34 Physics lab

Objective: Students will measure the heat of fusion of ice

PA standard: 3.2.P.B1

Activity: Heat of fusion lab

Evaluation: Completed lab report and calculations on the heat of fusion of Ice.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. **Extra credit: Engineering project:** Marsh mellow Catapult

2:38 to 3:08 7th grade HR

3:08 to 3:30 Gym Lobby Duty

Wednesday B

8:05 to 8:49 Physics II

Objective: Students will identify optical lens and mirrors and draw ray diagrams and make predictions about the images formed.

PA standard: 3.2.P.B1

Activity Final review

Evaluation: Notebook check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: marsh mellow catapult

8:53-9:34 Prep

9:38- 10:19 General Physical Science/

Students will understand Concepts and problems from Chapter 11 Nuclear physics.

Activity: Review notes, demonstrations and discussion on Nuclear concepts and problems

Evaluation Review note check.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

10:23 to 11:04 General Physical Science:

Students will understand Concepts and problems from Chapter 11 Nuclear physics.

Activity: Review notes, demonstrations and discussion on Nuclear concepts and problems

Evaluation Review note check.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

11:08 to 11:49 Study hall in the Room 200

11:49 to 12:19 Eat B Lunch

12:23 to 1:04 C lunch Duty

1:08 to 1:49 Physics

Objective: Students will describe various types of collisions, impulse and momentum

PA standard: 3.2.P.B1

Activity: Review Notes, demonstrations and discussion on collisions, impulse and momentum

Evaluation: Review note check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

1:53 to 2:34 Physics lab

Objective: Students will measure the heat of fusion of ice

PA standard: 3.2.P.B1

Activity: Heat of fusion lab

Evaluation: Completed lab report and calculations on the heat of fusion of Ice.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow Catapult

2:38 to 3:08 Sci fi club

3:08 to 3:30 Gym Lobby Duty

Thursday A

8:05 to 8:49 Physics II/

Objective: Students will solve and draw various optical systems.

PA standard: 3.2.P.B1

Activity Mixed problem set for Ch 23 geometry of light.

Evaluation: Completed Ray diagram and calculations

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

8:53-9:34 Prep

9:38- 10:19 General Physical Science

Objective: Students will apply concepts, units and formulas to solving work, and various types of energy .

PA standard: 3.2.P.B1

Activity Review Chapter 13 on work, PE and KE.

Evaluation: Review note check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow Catapult

10:23 to 11:04 General Physical Science

Objective: Students will apply work, simple machine, energy conservation of energy to problems

PA standard: 3.2.P.B1

Activity Guided review on concepts, formulas, units and problems related to chapter 13.

Evaluation: completed concept review and chapter 13 problems

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow Catapult

11:08 to 11:49 Study hall in the Room 200

11:49 to 12:19 Eat B Lunch

12:23 to 1:04 C lunch Duty

1:08 to 1:49 Physics

Objective: Students will apply concepts, units and formulas to solving work, and various types of energy .

PA standard: 3.2.P.B1

Activity Review Chapter 13 on work, PE and KE.

Evaluation: Review note check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow Catapult

1:53 to 2:34 Physics lab

Objective: Students will make and test virtual circuits

PA standard: 3.2.P.B1

Activity: Virtual DC circuits.

Evaluation: Completed circuits and schematics

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow Catapult

2:38 to 3:08 7th Grade HR

3:08 to 3:30 Gym Lobby Duty.

Friday B day

8:05 to 8:49 Physics II

Objective: Students will find the focal length and Magnification of various lens and mirrors. Image distance and object distance

PA standard: 3.2.P.B1

Activity Optics lab

Evaluation: Completed Lab data sheet and calculations.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

8:53-9:34 Prep

9:38- 10:19 General Physical Science:

Objective: Students investigate the energy of waves and identify various types and parts of waves and the properties of waves.

PA standard: 3.2.P.B1

Activity Demonstrations, notes and discussion on waves

Evaluation: Student feedback

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult

10:23 to 11:04 General Physical Science:

Objective: Students investigate the energy of waves and identify various types and parts of waves and the properties of waves.

PA standard: 3.2.P.B1

Activity Demonstrations, notes and discussion on waves

Evaluation: Student feedback

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

11:08 to 11:49 Study hall in the Room 200

11:49 to 12:19 Eat B Lunch

12:23 to 1:04 C lunch Duty

1:08 to 1:49 Physics

Objective: Students understand the laws of Thermodynamics.

PA standard: 3.2.P.B1

Activity: View and discuss MU Entropy. Complete the video questions to MU low temperatures.

Evaluation: Completed Mu Entropy questions.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow catapult.

1:53 to 2:34 Physics lab

Objective: Students will make and test virtual circuits

PA standard: 3.2.P.B1

Activity: Virtual DC circuits.

Evaluation: Completed circuits and schematics

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Marsh mellow Catapult

2:38 to 3:08 Sci Fi Club

3:08 to 3:30 Gym Lobby Duty.