Lesson plans March 18 to 22, 2019

Mr. Woolslayer Room 200

Monday

8:05 to 8:49 Physics II

Objective: Students recognize Si units and formula symbols of electromagnetic induction.

Students will explain the contribution of scientists and businessmen that shape the power grid of the United States. Students will apply concepts from Faraday's and Lens' Law to EMF.

PA standard: 3.2.P.B1

Activity Review notes and review problems on chapter 21.

Evaluation: Notebook check and completed review problems

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

8:53-9:34 Prep

9:38- 10:19 General Physical Science:

Objective: Students will recognize symbols and units for speed, velocity and acceleration formulas. Students will understand the five step approach to solving motion problems. Students will draw force diagrams.

PA standard: 3.2.P.B1

Activity: Notes, demonstrations, discussion and video clips on acceleration and forces.

Evaluation Notebook check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

10:23 to 11:04 General Physical Science:

Objective: Students will recognize symbols and units for speed, velocity and acceleration formulas. Students will understand the five step approach to solving motion problems. Students will draw force diagrams.

PA standard: 3.2.P.B1

Activity: Notes, demonstrations, discussion and video clips on acceleration and forces.

Evaluation Notebook check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school Extra credit: Engineering project: Mouse trap car project

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 solve problems related to the momentum, impulse, conservation of momentum, elastic and inelastic collisions.

PA standard: 3.2.P.B1

Activity: Practice test problems ch 6.

Evaluation: Completed Chapter 6 practice test problems

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

1:53 to 2:34 Physics lab

Objective: Students will measure centripetal force and calculate the tangential velocity of a revolving object.

PA standard: 3.2.P.B1

Activity: Centripetal force lab

Evaluation: Completed Data sheet on Centripetal force..

2:38 to 3:08 7th grade HR

3:08 to 3:30 Gym Lobby Duty.

Tuesday

8:05 to 8:49 Physics II

Objective: Students will apply concepts from Faraday's and Lens' Law to EMF.

PA standard: 3.2.P.B1

Activity Practice test problems on Chapter 21.

Evaluation: Completed practice test problems

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

8:53-9:34 Prep

9:38- 10:19 General Physical Science:

Objective: Students will recognize symbols and units for force formulas. Students will understand the four fundamental forces and difference between contact and field forces.. Students will draw force diagrams.

PA standard: 3.2.P.B1

Activity: Notes, demonstrations, discussion and video clips on acceleration and forces.

Evaluation Notebook check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

10:23 to 11:04 General Physical Science:

Objective: Students will recognize symbols and units for force formulas. Students will understand the four fundamental forces and difference between contact and field forces.. Students will draw force diagrams.

PA standard: 3.2.P.B1

Activity: Notes, demonstrations, discussion and video clips on acceleration and forces.

Evaluation Notebook check

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

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 define terms and recognize symbols and SI units related to the momentum, impulse, conservation of momentum, elastic and inelastic collisions.

PA standard: 3.2.P.B1

Activity: Go over study guides ch 6 and ch 6 vocabulary , review notes

Evaluation: Review note check

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

1:53 to 2:34 Physics lab

Objective: Students will measure centripetal force and calculate the tangential velocity of a revolving object.

PA standard: 3.2.P.B1

Activity: Centripetal force lab

Evaluation: Completed Data sheet on Centripetal force..

2:38 to 3:08 Sci Fi Club

3:08 to 3:30 Gym Lobby Duty.

Wednesday

8:05 to 8:49 Physics II

Objective: Students recognize Si units and formula symbols of electromagnetic induction.

Students will explain the contribution of scientists and businessmen that shape the power grid of the United States. Students will apply concepts from Faraday's and Lens' Law to EMF.

PA standard: 3.2.P.B1

Activity chapter 21 conceptual test

Evaluation: Completed Conceptual test

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

8:53-9:34 Prep

9:38- 10:19 General Physical Science:

Objective: Students will solve problems related to distance, time, displacement, speed, velocity and acceleration

PA standard: 3.2.P.B1

Activity: Guided practice problems from handout on motion problems.

Evaluation Completed motion handout problems.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

10:23 to 11:04 General Physical Science:

Objective: Students will solve problems related to distance, time, displacement, speed, velocity and acceleration

PA standard: 3.2.P.B1

Activity: Guided practice problems from handout on motion problems.

Evaluation Completed motion handout problems.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

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 define terms and recognize symbols and SI units related to the momentum, impulse, conservation of momentum, elastic and inelastic collisions. Solve problems related to the momentum, impulse, conservation of momentum, elastic and inelastic collisions.

PA standard: 3.2.P.B1

Activity: Ch 6 conceptual test and problem test

Evaluation: Review note check

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

1:53 to 2:34 Physics lab

Objective: Students will measure centripetal force and calculate the tangential velocity of a revolving object.

PA standard: 3.2.P.B1

Activity: Centripetal force lab

Evaluation: Completed lab report on centripetal force

2:38- 3:08 7th grade HR

3:08 to 3:30 Gym Lobby Duty.

Thursday

8:05 to 8:49 Physics II

Objective:

Students will apply concepts from Faraday's and Lens' Law to EMF.

PA standard: 3.2.P.B1

Activity chapter 21 Test problems

Evaluation: Completed Ch 21 test problems

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

8:53-9:34 Prep

9:38- 10:19 General Physical Science:

Objective: Students will solve problems related to distance, time, displacement, speed, velocity and acceleration

PA standard: 3.2.P.B1

Activity: Continued Guided practice and independent problems from handout on Ch 11 problems.

Evaluation Completed Ch 11 handout problems.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

10:23 to 11:04 General Physical Science:

Objective: Students will solve problems related to distance, time, displacement, speed, velocity and acceleration

PA standard: 3.2.P.B1

Activity: Continued Guided practice and independent problems from handout on Ch 11 problems.

Evaluation Completed Ch 11 handout problems.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

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 define words related to circular motion and universal gravitation.

Students will recognize symbols and SI units related to circular motion and the planets.

PA standard: 3.2.P.B1

Activity: Directed Reading and study guide ch 7.

Evaluation: completed SG 7

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

1:53 to 2:34 Physics Lab:

Objective: Students will measure centripetal force and calculate the tangential velocity of a revolving object.

PA standard: 3.2.P.B1

Activity: Centripetal force lab

Evaluation: Completed lab report on centripetal force

2:38- 3:08 Sci Fi club

3:08 to 3:30 Gym Lobby Duty.

Friday

8:05 to 8:49 Physics II

Objective: Students design and test a communication system, that will transmit and receive a signal using Electromagnetism

PA standard: 3.2.P.B1

Activity: Laser communication engineering lab continued.

Evaluation: Functional Laser Communication system

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car project

8:53-9:34 Prep

9:38- 10:19 General Physical Science:

Objective: Students will understand the difference between scalars and vectors. Students will give practice uses for vectors.

PA standard: 3.2.P.B1

Activity: View and discuss MU Vectors. Complete the video questions to MU Vectors

Evaluation: Completed MU Vectors questions.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car

10:23 to 11:04 General Physical Science:

Objective: Students will understand the difference between scalars and vectors. Students will give practice uses for vectors.

PA standard: 3.2.P.B1

Activity: View and discuss MU Vectors. Complete the video questions to MU Vectors

Evaluation: Completed MU Vectors questions.

Enrichment/Remediation: Tutoring is available by appointment before school, 9th period or after school. Extra credit: Engineering project: Mouse trap car

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 motion of objects in the night sky.

Students will recognize symbols and SI units related to circular motion and the planets.

PA standard: 3.2.P.B1

Activity: View and discuss Solar Max complete the video guide to solar max.

Evaluation: Completed Solar max video questions

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

1:53 to 2:34 Physics lab

Objective: Students will draw and measure ellipses

PA standard: 3.2.P.B1

Activity: Ellipse lab

Evaluation: Completed drawings, measurements and lab questions.

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

2:38 to 3:08 7th grade HR