FMS TIGERS

Week of: 5/17/21

Subject: Physical Science 8

SOL(s): **6.1, LS.1, PS.1** Scientific Inquiry
6.2 - 6.9 Earth & Space Systems
LS.2 - 11 Life Systems & Ecosystems
PS.2 - 11 Matter, Energy, Forces, & Motion

1. **What am I learning?**
   All topics covered in 6th, 7th, & 8th grade science.

2. **Why am I learning this?**
   Atoms and molecules make up everything in our universe, living and nonliving. Energy is necessary for life.

3. **How will I know I've learned it?** I can recall, describe, and apply my knowledge of middle school science topics.

Monday/Tuesday 5/17-18

Learning Activity -

1. **Introduce Brain Dump**
2. **TestNav Science 8 Practice Items**

Activity -

1. **SOL Review Board**
   a. JLab practice tests
   b. JLab Balancing Act
   c. SOLPass
   d. SOL Booklets
   e. BrainDump
   f. Recaps

Wednesday 5/19
Virtual Students take their Science SOL
Hybrid Students do their Thursday assignments

Thursday/Friday 5/20-21
Thursday -- In person Science SOL testing

Learning Activity -

3. **How Wolves Change Rivers (Ecosystems)**
4. **Provide assistance with assignment completion**

Activity -

2. **Completing any missing 4th 9 Weeks assignments**

Week of 5/24-28/21
5/26 SOL Make-up Testing
Ecosystems with Planet Earth
5/27-28th Grade Awards Presentation

FMS TIGERS

Week of: 5/10/21

Subject: Physical Science 8

SOL(s): **6.2-9** Earth & Space Systems
PS.11 The student will investigate and understand basic principles of **electricity** and **magnetism.** Key concepts include
a) static electricity, current electricity, and circuits;
c) electromagnets, motors, and generators and their uses.; and
d) conductors, semiconductors, and insulators.

1. **What am I learning?**
   The differences between static electricity, current electricity, and circuits; electromagnets, motors, and generators and their uses; Earth and Space Systems

2. **Why am I learning this?**
   Electricity is used in several different ways and has different paths and currents. Our world is our Earth, its atmosphere and resources, and our solar system.

3. **How will I know I've learned it?** I can investigate and understand electric circuits, and recognize the differences between static and current electricity. I can recall and describe the Earth and Space systems.

Learning Activity -

1. **Earth & Space Systems Booklet** First 1/2
2. SOL Scientific Investigation Review Pear Deck

Activity -

1. **Electric Current BrainPOP**
   a. **Movie**
   b. **Review Quiz**
   c. **Game--Circuit Construction (Build a DC Circuit)**

<u>Wednesday</u> 5/12
Virtual Students take their Math SOL
Hybrid Students do their Thursday assignments

<u>Thursday/Friday</u> 5/13-14

Learning Activity -

3. Complete **Earth & Space Systems Booklet**
4. **Tesla BrainPop**
   a. **Movie**
   b. **Review Quiz**
   c. **Challenge Review**

Activity -

2. **Life Systems Recap**

Week of 5/17-21/21 (tentative)
SOL Review Booklet: Matter, Energy, Force, & Motion
TestNav SOL Practice Test 5/17-18
SOL Pass Practice
5/19-20 Science SOL
5/21 Last day for late work, Grade cut-off 3:00 pm (School-wide)

FMS TIGERS

Week of: 5/3/21

Subject: Physical Science 8

SOL(s): **LS. 5-9** Ecosystems, **LS. 2-4, 10-11** Life Systems
PS.11 The student will investigate and understand basic principles of **electricity** and **magnetism**. Key concepts include
a) static electricity, current electricity, and circuits;
c) electromagnets, motors, and generators and their uses.; and
d) conductors, semiconductors, and insulators.

1. **What am I learning?**
   The differences between static electricity, current electricity, and circuits; electromagnets, motors, and generators and their uses; Ecosystems and Life Systems

2. **Why am I learning this?**
   Electricity is used in several different ways. Our world is made of varying organisms with different structures and classifications which interact with each other and their physical surroundings.

3. **How will I know I've learned it?** I can investigate and understand electric circuits, and recognize the differences between static and current electricity. I can recall and describe the interaction of organisms in an ecosystem. I can classify organisms by their structures and similarities.

Monday/Tuesday 5/3-4

Learning Activity -
1. Go over/Make Up **Sound, Light, and EM Waves Quiz**
2. Complete **Ecosystems Review Booklet**
3. **Life Systems Booklet** Parts A-C

Activity -
1. **Symbiosis, Habitats, & Niches** PearDeck

Wednesday 5/5
Virtual Students take their Reading SOL
Hybrid Students Complete Tuesday's assignment for Science

Thursday/Friday 5/ 6-7

Learning Activity -
4. **Complete Life Systems BookletSound and Light Waves Kahoot Review**

Activity -
2. **Ecosystems Recap**
3. **Electricity and Magnetism Practice**

Week of 5/10-14/21 (tentative)
SOL Review Booklets: **SOL's 6. 2-6.4, 6.6-6.8** Earth & Space, and Matter
Electricity and Magnetism
5/19-20 Science SOL
5/21 Last day for late work, Grade cut-off 3:00 pm (School-wide)

FMS TIGERS

Week of: 4/26/21

Subject: Physical Science 8

SOL(s): **PS.1** Scientific Inquiry, **LS. 5-9** Ecosystems
PS.8 The student will investigate and understand the characteristics of sound waves. Key concepts include
a) wavelength, frequency, speed, amplitude, rarefaction, and compression;
b) resonance;
c) the nature of compression waves; and
d) technological applications of sound.
PS.9 The student will investigate and understand the characteristics of transverse waves. Key concepts include
a) wavelength, frequency, speed, amplitude, crest, and trough;
b) the wave behavior of light;
d) the electromagnetic spectrum; and
e) technological applications of light

1. **What am I learning?**
   The characteristics of Sound Waves and Light Waves, Scientific Inquiry, and Ecosystems

2. **Why am I learning this?**
   Sound and Light travel in different types of waves, Science inquiry is essential for understanding our world, and our world is made up of many organisms interacting in different ways.

3. **How will I know I've learned it?** I can investigate and understand the characteristics and uses of sound and light waves. I can recall and apply scientific inquiry methods and understand interaction of organisms in an ecosystem.

Monday/Tuesday 4/26-27

Learning Activity -
1. **Scientific Inquiry Booklet** Part E
2. **Ecosystems Review Booklet** Parts A-C
3. Go over/Make Up **3rd 9 Weeks Vocabulary Posttest**

Activity -
1. **Scientific Inquiry and Investigation Recap Activity**

Wednesday 4/28
Review Sound Waves and Light and EM Spectrum Notes
Complete and study **Scientific Inquiry and Investigation Booklet**

Thursday/Friday 4/29-30

Learning Activity -
4. **Technological Uses of Sound FlipGrid Presentations**
5. **Sound and Light Waves Kahoot Review**

Activity -

2. **Sound, Light, and Electromagnetic Spectrum Quiz**
3. **Electricity Notes**

Week of 5/3-7/21 (tentative)
SOL Review Booklets: Complete Ecosystems and Earth & Space
Electricity and Magnetism

FMS TIGERS

Week of: 4/19/21

Subject: Physical Science 8

SOL(s): **PS.1** Scientific Inquiry
PS.8 The student will investigate and understand the characteristics of sound waves. Key concepts include
a) wavelength, frequency, speed, amplitude, rarefaction, and compression;
b) resonance;
c) the nature of compression waves; and
d) technological applications of sound.
PS.9 The student will investigate and understand the characteristics of transverse waves. Key concepts include
a) wavelength, frequency, speed, amplitude, crest, and trough;
b) the wave behavior of light;
d) the electromagnetic spectrum; and
e) technological applications of light

1. **What am I learning?**
   The characteristics of Sound Waves and Light Waves
   Scientific Inquiry

2. **Why am I learning this?**
   Sound and Light travel in different types of waves
   Science inquiry is essential for understanding our world

3. **How will I know I've learned it?** I can investigate and understand the characteristics and uses of sound and light waves. I can recall and apply scientific inquiry methods.

Monday/Tuesday 4/ 19-20

Learning Activity -

1. Go over/Make Up **3rd 9 Weeks Vocabulary Posttest**
2. **Light and EM Waves Notes**

Activity -

1. **Technology Uses of Sound** due Wednesday
2. **BrainPop Light Assignment: Movie, Quiz, and Challenge**

Wednesday 4/21
SOL Booklet Form Receipt
Complete assignments and missing work

<u>Thursday/Friday</u> 4/22-23

Learning Activity -

3. **SOL Review Booklet: Scientific Inquiry**

Activity -

3. **Electromagnetic Spectrum (NASA)** EdPuzzle
4. **Electromagnetic Spectrum** EdPuzzle
5. **NASA Radio Waves** EdPuzzle

<u>Week of 4/26-30/21 (tentative)</u>
SOL Review Booklet review continues
Sound and Light Quiz 4/29-30

FMS TIGERS

Week of: 4/12/21

Subject: Physical Science 8

SOL(s): **PS.6, PS.7, and PS.10** 3rd 9 Weeks Essential Vocabulary
PS.8 The student will investigate and understand the characteristics of sound waves. Key concepts include
a) wavelength, frequency, speed, amplitude, rarefaction, and compression;
b) resonance;
c) the nature of compression waves; and
d) technological applications of sound.

1. **What am I learning?**
   3rd 9 Weeks Essential Vocabulary
   The characteristics of Sound Waves

2. **Why am I learning this?**
   Vocabulary is essential to understanding
   Sound is an integral part of our lives

3. **How will I know I've learned it?** I can use and understand essential vocabulary. I can investigate and understand the characteristics and uses of sound waves.

<u>Monday/Tuesday</u> 4/ 12-13

Learning Activity -

1. **Sound Waves Notes**

Activity -

1. **Sound Waves Practice**
2. **3rd 9 Weeks Vocabulary Practice #1-24 on Quizlet: Flash Cards, Spell, Learn, Test, Match**
3. Receive **SOL Booklets** for in-person, send out for virtual

<u>Wednesday</u> 4/14
Study for the 3rd 9 Weeks Vocabulary Posttest
Complete assignments and missing work

Thursday/Friday 4/15-16

Learning Activity -

2. **Quizlet Live on 3rd 9 Weeks Vocabulary**
3. **Study/Review** 5-8 minutes

Activity -

4. **3rd 9 Weeks Vocabulary PostTest**
5. Start **Technological Uses of Sound Waves**

Week of 4/19-23/21 (tentative)
Start SOL Review Booklets
Interims 4/22/21
Light Unit

FMS TIGERS

Week of: 4/5/21

Subject: Physical Science 8

SOL(s):
PS.6 The student will investigate and understand forms of energy and how energy is transferred and transformed.
PS.7 The student will investigate and understand temperature scales, heat, and thermal energy transfer. Key concepts include
a) Celsius and Kelvin temperature scales and absolute zero;
b) phase change, freezing point, melting point, boiling point, vaporization, and condensation;
c) conduction, convection, and radiation;
PS. 10 The student will investigate and understand the scientific principles of work, force, and motion.

1. **What am I learning?**
   Energy, Motion, Forces and Newton's Laws, Work and Power
   Heat, Heat Transfer, Phase Change Diagrams, and Temperature

2. **Why am I learning this?**
   All objects can be described by their energy and motion.
   All objects have thermal (heat) energy which can be transferred and graphed.

3. **How will I know I've learned it?** I can calculate speed, force, work, and power; identify velocity, acceleration, energy and its transformations, and heat characteristics.

Monday/Tuesday 4/ 5-6 (No School Monday)

Learning Activity -

1. **Phase Change Graph Mini Lesson**
2. Go over **3rd 9 Weeks Review**

Activity -

1. **3rd 9 Weeks CFA**
2. **Temperature vs Heat EdPuzzle**

Wednesday 4/7
Complete **Temperature vs. Heat EdPuzzle** and any missing work
Review **3rd 9 Weeks Vocabulary List**

Thursday/Friday 4/8-9

Learning Activity -

3. **Go over/Makeup 3rd 9 Weeks CFA**
4. **Heat Transfer, Phase Change, and Temperature Pear Deck**

Activity -

3. **Heat Transfer, Temperature, and Phase Change Practice** wizer.me
4. **3rd 9 Weeks Vocabulary Practice Section 3 Practice** wizer.me

Week of 4/12-16/21 (tentative)
Hand out/Pick up SOL Review Booklets (Packet of 5)
3rd 9 Weeks Vocabulary Post-test 4/15-16
Sound Unit

FMS TIGERS

Week of: 3/29/21

Subject: Physical Science 8

SOL(s): **PS.6** The student will investigate and understand forms of energy and how energy is transferred and transformed. Key concepts include
a) potential and kinetic energy; and
b) mechanical, chemical, electrical, thermal, radiant and nuclear energy
PS.7 The student will investigate and understand temperature scales, heat, and thermal energy transfer. Key concepts include
a) Celsius and Kelvin temperature scales and absolute zero;
b) phase change, freezing point, melting point, boiling point, vaporization, and condensation;
c) conduction, convection, and radiation; and
d) applications of thermal energy transfer.
PS. 10 The student will investigate and understand the scientific principles of work, force, and motion. Key concepts include
a) speed, velocity, and acceleration;
b) Newton's laws of motion;
c) work, force, mechanical advantage, efficiency, and power; and
d) technological applications of work, force, and motion.

1. **What am I learning?** Energy and Energy Transformations, Heat and Heat Transfer, Motion and Motion Graphs, Forces and Newton's Laws, and Work and Power.

2. **Why am I learning this?** All objects can be described by their energy and motion.

3. **How will I know I've learned it?** I can calculate speed, force, work, and power; identify velocity, acceleration, energy types and forms, and heat characteristics; and interpret motion and phase change graphs.

Monday/Tuesday 3/29-30

Learning Activity -

1. Go over/Make-up: **Work, Power, and Energy Quick Quiz**
2. Highlight **Heat Notes: Slides 5, 6, 8, 9, 10 and 11**

Activity -

1. **3rd 9 Weeks Review** (Use these notes to help: Motion, Forces & Newton's Laws, Work and Power, Energy, and Heat)

Wednesday 3/31
Complete **3rd 9 Weeks Review**
Study these 3rd 9 Weeks Notes: Motion and Motion Graphs, Forces & Newton's Laws, Work and Power, Energy, and Heat

Thursday/Friday 4/1-2 (No School Friday)

Learning Activity -
1. **Phase Change Graph Mini Lesson**
2. Go over **3rd 9 Weeks Review**

Activity -
2. **3rd 9 Weeks CFA**
3. **Temperature vs Heat EdPuzzle**

Week of 4/5-9/21 (tentative)
3rd 9 Weeks CFA 4/-6
Heat Unit

FMS TIGERS

Week of: 3/22/21

Subject: Physical Science 8

SOL(s): **PS.6** The student will investigate and understand forms of energy and how energy is transferred and transformed. Key concepts include
a) potential and kinetic energy; and
b) mechanical, chemical, electrical, thermal, radiant and nuclear energy.

1. **What am I learning?** Energy and Energy Transformations
2. **Why am I learning this?** Energy exists in two states and six forms and can transform from one to another.
3. **How will I know I've learned it?** I can differentiate between energy types and forms, and identify transformations.

Monday/Tuesday 3/22-23

Learning Activity -
1. **Energy Transformations** EdPuzzle
2. **Energy Forms and Transformations Practice** (Google Slides)

Activity -
1. **Energy Forms and Transformations practice** (Wizer.me)

Wednesday 3/24
Complete or Make up: **Any missing or late work.**
Work, Power, and Energy Quiz Review

<u>Thursday/Friday</u> 3/25-26

Learning Activity -

1. **Work, Power, and Energy Class Review**

Activity -

2. **Work, Power, and Energy Quick Quiz**
3. **Heat Notes**

<u>Week of 3/29-4/2/21 (tentative)</u>
3rd 9 Weeks CFA 4/1-2
Heat Unit

Week of: 3/8/21

Subject: Physical Science 8

SOL(s): **PS. 10** The student will investigate and understand the scientific principles of work, force, and motion. Key concepts include
c) work, force, mechanical advantage, efficiency, and power;
PS.6 The student will investigate and understand forms of energy and how energy is transferred and transformed. Key concepts include
a) potential and kinetic energy; and
b) mechanical, chemical, electrical, thermal, radiant and nuclear energy.

1. **What am I learning?** Work, Power, Energy, and Energy Transformations
2. **Why am I learning this?** Work is done when an object is moved and power is fast fast work is done.
3. **How will I know I've learned it?** I can calculate Work and Power. I can differentiate between energy types and forms.

<u>Monday/Tuesday</u> 3/8-9

Learning Activity -

1. **Energy Notes**
2. **Potential and Kinetic Practice** Pear Deck

Activity -

1. **Potential and Kinetic Energy** (on Wizer.me)

<u>Wednesday</u> 3/10
Complete or Make up: **Any missing or late work:**
All late work due by 3:00 pm today

Thursday/Friday 3/11-12 (Friday is a ½ day)

Learning Activity -

1. **Energy Forms** Movie and Challenge in Brainpop
2. **3rd 9 Weeks Vocabulary** (Terms #17-24) on Quizlet

Activity -

2. **Potential vs Kinetic Energy** (wizerme)

Week of 3/22-26/21 (tentative)
Work, Power, & Energy Mini Quiz 3/25-26
3rd 9 Weeks CFA 4/1-2
Heat Unit

FMS TIGERS

Week of: 3/1/21

Subject: Physical Science 8

SOL(s): **PS. 10** The student will investigate and understand the scientific principles of work, force, and motion. Key concepts include
b) Newton's laws of motion;
c) work, force, mechanical advantage, efficiency, and power;

1. **What am I learning?** Forces and Newton's Laws, work and power

2. **Why am I learning this?** Newton's three laws of motion describe the motion of all common objects. Work is done when an object is moved and power is fast fast work is done.

3. **How will I know I've learned it?** I can calculate Force, Work, and Power. I can identify situations illustrating each Law of Motion.

Monday/Tuesday 3/1-2

Learning Activity -

1. Make-Up/Go Over **Forces and Newton's Laws Quiz**
2. **Work and Power Notes**

Activity -

1. **Calculating Work and Power** (on Wizer.me)
2. **3rd Nine Weeks Vocabulary (Terms #9 - #16) 20 -21** on Quizlet

Wednesday 3/3
Complete or Make up: **3rd Nine Weeks Vocabulary (Terms #9 - #16) 20 -21** on Quizlet
Any missing or late work

<u>Thursday/Friday</u> 3/4-5

Learning Activity -

1. Go over **Calculating Work & Power** (wizer.me)
2. **Quizlet Live 3rd 9 Weeks Vocabulary #1-8**

Activity -

3. **Work and Power Calculations Practice** (wizer.me)
4. **3rd 9 Weeks Vocabulary Section 2 Practice** (wizerme)

<u>Week of 3/8-12/21 (tentative)</u>
Vocabulary Words 17-24 on quizlet and Wizer.me
Energy Unit
(Work & Power and Energy units will be combined into one assessment)

FMS TIGERS

Week of: 2/22/21

Subject: Physical Science 8

SOL(s): **PS. 10** The student will investigate and understand the scientific principles of work, force, and motion. Key concepts include
b) Newton's laws of motion;
c) work, force, mechanical advantage, efficiency, and power;

1. **What am I learning?** Forces and Newton's Laws, work and power

2. **Why am I learning this?** Newton's three laws of motion describe the motion of all common objects. Work is done when an object is moved and power is fast fast work is done.

3. **How will I know I've learned it?** I can calculate Force, Work, and Power. I can identify situations illustrating each Law of Motion.

<u>Monday/Tuesday</u> 2/22-23

Learning Activity -

1. **Newton's Laws Practices**
    a. **Newton's Laws Practice (Pear Deck)**
    b. **Newton's Laws BrainPop Activities**
    c. **Newton's Laws Wizer.me**
    d. **Newton's Laws Practice Wizer.me**

Activity -

1. **3rd 9 Weeks Vocabulary Practice Part 1** on Quizlet: Flash Cards, Spelling, Learn, and Match

<u>Wednesday</u> 2/24
Complete or Make up:
Complete your 3rd 9 Weeks Vocabulary Practice Part 1 on Quizlet

<u>Thursday/Friday</u> 2/25-26

Learning Activity -

2. **Forces and Motion Review**/Revisit Kahoot
3. Review for Quiz

Activity -

2. **Forces and Newton's Laws Quiz**
3. **PS 8 3rd 9 Weeks Vocabulary Section 1 Practice on Wizer.me**

<u>Week of 3/1-5/21 (tentative)</u>
Vocabulary Words 9-16 on quizlet and Wizer.me
Work and Power Notes and Unit

FMS TIGERS

Week of: 2/15/21

Subject: Physical Science 8

SOL(s): **PS. 10** The student will investigate and understand the scientific principles of work, force, and motion. Key concepts include
b) Newton's laws of motion;

1. **What am I learning?** Forces and Newton's Laws
2. **Why am I learning this?** Newton's three laws of motion describe the motion of all common objects.
3. **How will I know I've learned it?** I can calculate Force and apply the concepts of force and acceleration. I can identify situations illustrating each Law of Motion.

<u>Tuesday</u> 2/9 (Monday 2/15 No School: Presidents' Day)

Learning Activity -

1. Newton's Laws Practice Pear Deck
2. Brainpop: Newton's Laws--Movie, Quiz, Review Challenge

Assignment -

3. Newton's Laws Practice Wizer.me

<u>Wednesday</u> 2/17
Complete or Make up:
Newton's Laws Practice Pear Deck
Newton's Law Practice Wizer.me

<u>Thursday/Friday</u> 2/18-19

Learning Activity -

1. **Forces and Motion Review**/Revisit Kahoot
2. Review for Quiz

Activity -

1. **Forces and Newton's Laws Quiz**
2. **3rd 9 Weeks Vocabulary Practice Part 1** on Quizlet: Flash Cards, Spelling, Learn, and Match

Week of 2/22-26/21 (tentative)
Vocabulary Wizer.me Practice 1
Vocab Quizlet Practice 2
Work and Power Notes and Unit

FMS TIGERS

Week of: 2/8/21

Subject: Physical Science 8

SOL(s): **PS. 10** The student will investigate and understand the scientific principles of work, force, and motion. Key concepts include
a) speed, velocity, and acceleration;
b) Newton's laws of motion;

1. **What am I learning?** Motion and Motion Graphs, Forces and Newton's Laws

2. **Why am I learning this?** Objects' movements have speed, velocity, and acceleration. Newton's three laws of motion describe the motion of all common objects.

3. **How will I know I've learned it?** I can calculate the speed of a moving object, apply the concepts of speed, velocity, and acceleration, and identify situations illustrating each Law of Motion.

Tuesday 2/9 (Monday 2/8 is a Teacher Workday)

Learning Activity -
1. Go over/Make-up Motion and Motion Graph Quiz
2. Forces and Newton's Laws Notes

Assignment -
3. Forces BrainPop Assignment
    a. Movie
    b. Quiz
    c. Challenge (Review)

Wednesday 2/10
Finish or Make up: **Motion Quiz**
Complete **Forces and Newton's Law Notes**
3rd 9 Weeks Vocab List with Definitions and Related Information due

Thursday/Friday 2/11-12

Learning Activity -
1. Newton's Laws Practice Pear Deck
1. EdPuzzle Net Forces

Activity - Balanced and Unbalanced Forces - Wizer.me

Week of 2/15-19/21 (tentative)
Vocabulary Quizlet Practice 1 T/W
BrainPop: Newton's Laws
Newton's Laws Practice Pear Deck and Wizer.me
Forces & Newton's Laws Quiz 2/18-19

FMS TIGERS

Week of: 2/1/21

Subject: Physical Science 8

SOL(s): **PS. 10** The student will investigate and understand the scientific principles of work, force, and motion. Key concepts include
a) speed, velocity, and acceleration;
b) Newton's laws of motion;

1. **What am I learning?** Motion and Motion Graphs, Forces and Newton's Laws

2. **Why am I learning this?** Objects' movements have speed, velocity, and acceleration. Newton's three laws of motion describe the motion of all common objects.

3. **How will I know I've learned it?** I can calculate the speed of a moving object, apply the concepts of speed, velocity, and acceleration, and identify situations illustrating each Law of Motion.

Monday/Tuesday 2/1-2

Learning Activity -
1. Go over **Wizer.me Activities: SVA Practice and Speed: Distance - Time Graphs**
2. **Motion and Motion Graph Kahoot Review**

Assignment -
1. **Motion and Motion Graph Quiz**
2. 3rd **9 Weeks Vocab List** with Definitions and Related Information

Wednesday 2/3

Complete the **3rd 9 Weeks Vocab List** with Definitions and Related Information

Thursday/Friday 2/4-5

Learning Activity -
1. Go over/Make-up Motion and Motion Graph Quiz
2. Forces and Newton's Laws Notes

Assignment -
3. Forces BrainPop Assignment
    a. Movie
    b. Quiz
    c. Challenge (Review)
4. Balanced and Unbalanced Forces - Wizer.me

Week of 2/8-12/21 (tentative)
Vocabulary Practice 1
BrainPop: Newton's Laws
Newton's Laws Practice Pear Deck and Wizer.me
Forces & Newton's Laws Quiz 2/11-12

FMS TIGERS

Week of: 1/25/21

Subject: Physical Science 8

SOL(s): PS. 10 Motion
The student will investigate and understand Motion including speed, velocity, and acceleration

1. **What am I learning?** Motion of objects (speed, velocity, and acceleration)
2. **Why am I learning this?** Objects (made of matter) move in different ways
3. **How will I know I've learned it?** I can describe motion in terms of speed, velocity, and acceleration. I can calculate speed and velocity using the speed formula.

Monday/Tuesday 1/25-26

Learning Activity -
1. Go over **Speed, Distance, Time Mystery Pixel Art Activity**
2. Pear Deck **Fun with Motion**

Assignment -
1. PHET Simulation/Model "The Moving Man"

Wednesday 1/27

Speed, Velocity, or Acceleration Pear Deck Independent Activity

Thursday/Friday 1/28-29

Learning Activity -
1. Quick Recap: PHET Simulation Model "The Moving Man"
2. Speed; Distance - Time Graphs - Wizer.me

Assignment -
3. Speed, Velocity, and Acceleration Practice - Wizer.me

Week of 1/25-28/21 (tentative)
Motion Kahoot Review for Quiz
Motion and Motion Graph Quiz M/T 2/1-2
3rd 9 Weeks Vocab List
Forces & Newton's Laws Notes

FMS TIGERS

Week of: 1/18/21

Subject: Physical Science 8

SOL(s): PS.3,4,5 Atomic Theory, Periodic Table, Chemical and Nuclear Changes; (2nd 9 Weeks learning)
PS. 10 Motion
The student will investigate and understand:
PS.3 The modern and historical models of atomic structure; PS.4 The organization and use of the periodic table of elements to obtain information; andPS.5 The relationship of these changes to the Law of Conservation of Matter and Energy.
PS.10 a Speed, velocity, and acceleration

1. **What am I learning?** Atomic Theory, Periodic Table, Chemical and Nuclear Changes; Motion

2. **Why am I learning this?**
   Matter is made of atoms, the smallest parts, which are organized on the Periodic Table, and can go through physical, chemical and nuclear changes.
   Matter moves in different ways

3. **How will I know I've learned it?** I can describe the parts and charges of an atom, use the periodic table to find the chemical properties and reactivity of an element, compare and contrast nuclear changes, and describe motion in terms of speed, velocity, and acceleration.

Monday/Tuesday 1/18-19 (No school on Monday, 1/18--MLK Day, Asynchronous Day on Tuesday 1/19)

Learning Activity/Assignment -

1. Complete the **Nuclear Essay Final Draft** (i.e. Nuclear Video Notes, Nuclear Venn Diagram, Nuclear Essay Prewrite, Rough Draft, and Final Draft)

Wednesday 1/20

Complete **Nuclear Essay**--Due **Next Class**

Thursday/Friday 1/21-22

Learning Activity -

1. Make up/Go over **2nd 9 Weeks CFA**
2. **Motion Notes**
3. **EdPuzzle - Speed** (SDT Triangle)

Assignment -

4. **Speed, Distance, and Time Word Problem Activity**

Week of 1/25-28/21 (tentative)
Pear Deck - Fun with Motion
Wizer.me Motion Graph Practice
Motion Man Simulation
3rd 9 Weeks Vocabulary List
Motion Quiz M/T 2/1-2

FMS TIGERS

Week of: 1/11/21

Subject: Physical Science 8

SOL(s): PS.3,4,5 Atomic Theory, Periodic Table, Chemical and Nuclear Changes;
The student will investigate and understand:
PS.3 The modern and historical models of atomic structure.
PS.4 The organization and use of the periodic table of elements to obtain information.
PS.5 The relationship of these changes to the Law of Conservation of Matter and Energy.

1. **What am I learning?** Atomic Theory, Periodic Table, Chemical and Nuclear Changes

2. **Why am I learning this?** Matter is made of atoms, the smallest parts, which are organized on the Periodic Table, and can go through physical, chemical and nuclear changes.

3. **How will I know I've learned it?** I can describe the parts and charges of an atom of an element, use the periodic table to find the properties of an element and its chemical properties and reactivity. I can compare nuclear changes and the positives/negatives of using nuclear energy.

Monday/Tuesday 1/11-12

Learning Activity -
1. **Nuclear Essay Prewrite/Rough Draft**

Assignment -
1. **2nd 9 Weeks Review**--Use all 2nd 9 Weeks notes to help you.

Wednesday 1/13

Complete 2nd 9 Weeks Review until you get 100%

Thursday/Friday 1/14-15

Learning Activity/Assignment -
1. Review Q & A, take **2nd 9 Weeks CFA**
2. **Nuclear Essay**

Week of 1/18-22/21 (tentative)
1/18 No School: Martin Luther King Day
Nuclear Essays Due
Motion Unit, Vocabulary Pretest

FMS TIGERS

Week of: 1/4/21

Subject: Physical Science 8

SOL(s): PS.5 Nuclear Changes;
PS.5 The student will investigate and understand changes in matter and the relationship of these changes to the Law of Conservation of Matter and Energy. Key concepts include c) nuclear changes

1. **What am I learning?** Law of Conservation of Matter, Nuclear Changes

2. **Why am I learning this?** Matter is conserved in chemical reactions so chemical equations must be balanced. Matter and energy are NOT conserved in nuclear reactions.

3. **How will I know I've learned it?** I can describe the two processes that release nuclear energy and create a diagram to summarize, compare, and contrast these two types of nuclear energy. I can evaluate the positive and negative effects of using nuclear energy

Monday/Tuesday 1/4-5

Learning Activity -
1. Go over **Nuclear Notes**
2. Go over/Complete **What Change?**
3. 20 min **Nuclear Video--take notes**-- stopping at key points to go over what was shown/said
4. 7 min **Nuclear Fusion Alternative Video**--stopping at key points to go over what was shown/said

Assignment -
1. **Nuclear Venn Diagram** Comparing/Contrasting Nuclear Fission and Nuclear Fusion

Wednesday 1/6

Complete **Student Survey**
Complete Assignments from Mon/Tues!

Thursday/Friday 1/7-8

Learning Activity -
1. Newsela Article--**The world's first natural nuclear reactor at Oklo**

Assignment -
1. **Nuclear Essay Prewrite and Rough Draft**--Use your Nuclear Notes, notes from the Videos, and Nuclear Venn Diagram

Week of 1/11-15/21 (tentative)
1/11-12: **2nd 9 Weeks Review**--Use all 2nd 9 Weeks notes to help you.
Nuclear Essay
1/14-15: Most Radioactive Places on Earth EdPuzzle
2nd 9 Weeks CFA
Finish Nuclear Essay
Motion Notes

FMS TIGERS

Week of: 12/14/20

Subject: Physical Science 8

SOL(s): PS.4 and PS.5 Chemical Bonding and Chemical Changes;
PS.4 The student will investigate and understand the organization and use of the periodic table of elements to obtain information. Key concepts include c) formation of compounds
PS.5 The student will investigate and understand changes in matter and the relationship of these changes to the Law of Conservation of Matter and Energy. Key concepts include b) chemical changes; c) nuclear changes

1. **What am I learning?** Law of Conservation of Matter, Counting Atoms in a Compound, Balancing Chemical Equations, Nuclear Changes

2. **Why am I learning this?** Chemical formulas tell what and how many atoms are in each compound. Coefficients tell how many of each compound are present in a reaction. Matter is conserved in chemical reactions so chemical equations must be balanced. Matter and energy are NOT conserved in nuclear reactions.

3. **How will I know I've learned it?** I can identify the elements and the number of atoms of each in a compound. I can identify the reactants and products, write and balance simple chemical equations. I can identify physical, chemical, and nuclear changes of matter.

Monday/Tuesday 12/14-15

Learning Activity -
1. **Counting Atoms & Chemical Equations Review on Kahoot**
2. **Counting Atoms & Chemical Equations Quiz**

Assignment -
1. **Nuclear Notes** due next class

Wednesday 12/16

ALL LATE WORK DUE TOMORROW! Please complete any missing work or incomplete work!

Thursday/Friday 12/17-18 (Friday 12/18 is a ½ day)

Learning Activity -
1. ***Honors Students: Final Report, Presentation, and Display Board Due***
2. Go over/Makeup **Counting and Chemical Equations Quiz**
3. Go over **Nuclear Notes**

Assignment -
1. **Physical, Chemical, and Nuclear Changes Activity**

Week of 1/4-8/21 (tentative)
Nuclear videos and comparison, Nuclear Essay, Newsela Nuclear Article
2nd 9 Weeks Review
1/11-12/20 2nd 9 Weeks CFA

FMS TIGERS

Week of: 12/7/20

Subject: Physical Science 8

SOL(s): PS.4 and PS.5 Chemical Bonding and Chemical Changes;
PS.4 The student will investigate and understand the organization and use of the periodic table of elements to obtain information. Key concepts include c) formation of compounds
PS.5 The student will investigate and understand changes in matter and the relationship of these changes to the Law of Conservation of Matter and Energy. Key concepts include b) chemical changes;

1. **What am I learning?** Law of Conservation of Matter, Counting Atoms in a Compound, Balancing Chemical Equations

2. **Why am I learning this?** Chemical formulas tell what and how many atoms are in each compound. Coefficients tell how many of each compound are present in a reaction. Matter is conserved in chemical reactions so chemical equations must be balanced.

3. **How will I know I've learned it?** Given a chemical formula of a compound, I can identify the elements and the number of atoms of each that comprise the compound. Given chemical formulas, I can identify the reactants and products, and write and balance simple chemical equations.

Monday/Tuesday 12/7-8 ***Counting Atoms & Chemical Equations Quiz Mon/Tues 12/14-15***

Learning Activity -
1. **Law of Conservation of Matter** (ppt and quick quiz)
2. **Review Balancing Chemical Equations with Phet Simulation**
3. **Counting Atoms, Law of Conservation of Mass, Balancing Chemical Equations(Wizer.me)**

Assignment -
1. **Counting Atoms & Recognizing Balanced Equations (Wizer.me)**

Wednesday 12/9
Please complete any missing work or incomplete work!

Thursday/Friday 12/10-11

Learning Activity -
1. **Balancing Chemical Equations EdPuzzle**

Assignment -
1. **Holly Jolly Equations**
2. **Review for Counting Atoms & Chemical Equations Quiz next class**

Next Week 12/14-18/20 (tentative)
Mon/Tues: Counting Atoms & Chemical Equations Review, **Counting Atoms & Chemical Equations Quiz**, Nuclear Notes
Wed: Complete any assignments from Mon/Tues, **all 2nd 9 Weeks work due Thursday 12/17**
Thurs/Fri: Physical, Chemical, & Nuclear Changes, Nuclear Videos, Venn Diagram

FMS TIGERS

Week of: 11/30/20

Subject: Physical Science 8

SOL(s): PS.4 and PS.5 Chemical Bonding and Chemical Changes;
PS.4 The student will investigate and understand the organization and use of the periodic table of elements to obtain information. Key concepts include c) formation of compounds
PS.5 The student will investigate and understand changes in matter and the relationship of these changes to the Law of Conservation of Matter and Energy. Key concepts include b) chemical changes;

1. **What am I learning?** Law of Conservation of Matter, Counting Atoms in a Compound, Balancing Chemical Equations

2. **Why am I learning this?** Chemical formulas tell what and how many atoms are in each compound. Coefficients tell how many of each compound are present in a reaction. Matter is conserved in chemical reactions so chemical equations must be balanced.

3. **How will I know I've learned it?** Given a chemical formula of a compound, I can identify the elements and the number of atoms of each that comprise the compound. Given chemical formulas, I can identify the reactants and products, and write and balance simple chemical equations.

Monday/Tuesday 11/30-12/1

Learning Activity -
1. **Chemical Equations Notes**: Go over Counting portion of notes Slides 1-6
2. **Counting Atoms Challenge PearDeck**
3. Go over/Make-up/Retake **Chemical Bonding & Reactions Quiz**

Assignment -
1. **Let's Go for the Count! Activity**

Extra Credit Opportunity - **The Atomic Turkey Count!** Still available through this week :)

Wednesday 12/2/20
Please complete any missing work or incomplete work!

Thursday/Friday 12/3-4/20

Learning Activity -
1. **Chemical Bonding Revisit** (ppt and quick quiz)
2. **Law of Conservation of Matter** (ppt and quick quiz)
3. Go over **Chemical Equations Notes** Slides 7 - 12 on balancing chemical equations
4. **Balancing Chemical Equations Step-by-Step** (Guided and Independent)

Assignment -
1. **Counting Atoms Practice**

Next Week 12/7-11/20 (tentative)
Mon/Tues: **Law of Conservation of Matter** (ppt and quick quiz),Balancing Chem Equations Activity, Nuclear Notes
Wed: Complete any assignments from Mon/Tues
Thurs/Fri: Counting Atoms & Chemical Equations Quiz, P,C,N Changes

FMS TIGERS

Week of: 11/23/20

Subject: Physical Science 8

SOL(s): PS.4 and PS.5 Chemical Bonding and Chemical Changes;
PS.4 The student will investigate and understand the organization and use of the periodic table of elements to obtain information. Key concepts include c) formation of compounds through ionic and covalent bonding.
PS.5 The student will investigate and understand changes in matter and the relationship of these changes to the Law of Conservation of Matter and Energy. Key concepts include b) chemical changes;

1. **What am I learning?** Law of Conservation of Matter, Chemical Bonding and Reactions, Counting Atoms in a Compound

2. **Why am I learning this?** Chemical formulas tell what and how many atoms are in each compound. Coefficients tell how many of each compound are present in a reaction.

3. **How will I know I've learned it?** Given a chemical formula of a compound, I can identify the elements and the number of atoms of each that comprise the compound.

Monday/Tuesday 11/23-24

Learning Activity -
1. **Chemical Equations Notes**: Fill out using the Loom video
2. **Counting Atoms EdPuzzle**: assignment located on Google Classroom under Counting and Chemical Equations

Assignment - *Only for those who have NHI's or are missing assignments*
1. **Quiz Make-ups:** If you requested a make-up or retake of a quiz, do it now using your appropriate notes and/or periodic table
2. **Missing Assignments:** Check StudentVue for your missing work, then find it on Google Classroom and complete it!

Extra Credit Opportunity - **The Atomic Turkey Count!**

Wednesday - Friday (Thanksgiving Break)
No assignments! Have a wonderful break!!!

Next Week 11/30-12/4/20 (tentative)
Mon/Tues: Counting Atoms Activities
Wed: Complete any assignments from Mon/Tues
Thurs/Fri: Balancing Chemical Equations

FMS TIGERS

Week of: 11/16/20

Subject: Physical Science 8

SOL(s): **PS.4 and PS.5** Chemical Bonding and Chemical Changes; 2nd 9 Weeks Vocabulary
PS.4 The student will investigate and understand the organization and use of the periodic table of elements to obtain information. Key concepts include c) formation of compounds through ionic and covalent bonding.
PS.5 The student will investigate and understand changes in matter and the relationship of these changes to the Law of Conservation of Matter and Energy. Key concepts include b) chemical changes;

1. **What am I learning?** Law of Conservation of Matter, Ions, Chemical Bonding and Chemical Reactions, critical vocabulary

2. **Why am I learning this?** Matter bonds and breaks bonds between atoms to form compounds but no atoms are created or destroyed.

3. **How will I know I've learned it?** I can recognize that the number of valence electrons determines an element's chemical properties or chemical reactivity. describe the difference between ionic and covalent bonding. and predict what kind of bond (ionic or covalent) will likely form.

Monday/Tuesday 11/16-17

Learning Activity -
Go over/Make-up 2nd 9 Weeks Vocabulary Quiz
Ions and Bonding Practice Pear Deck Activity

Assignment -
Chemical Bonding PS.4 on Wizer.me
PS.4 Chemical Bonding and Reactions Practice wizer.me

Wednesday (At-home learning) 11/18
Assignment - Finish the Chemical Bonding activities assigned in Google Classroom on Wizer.me

Thursday/Friday 11/19-20

Learning Activity -
1. Chemical Bonding and Reactions Review
2. Chemical Bonding and Reactions Quiz
3. Chemical Equations Notes

Assignment -
Finish Chemical Equations Notes

Next Week 11/23-24/20 (tentative-Asynchronous Learning)
Mon/Tues: Counting Atoms Activities
Wed-Fri: Thanksgiving Break!!!

FMS TIGERS

Week of: 11/9/20

Subject: Physical Science 8

SOL(s): **PS.4 and PS.5** Chemical Bonding and Chemical Changes; 2nd 9 Weeks Vocabulary
PS.4 The student will investigate and understand the organization and use of the periodic table of elements to obtain information. Key concepts include c) formation of compounds through ionic and covalent bonding.
PS.5 The student will investigate and understand changes in matter and the relationship of these changes to the Law of Conservation of Matter and Energy. Key concepts include b) chemical changes;

1. **What am I learning?** Law of Conservation of Matter, Ions, Chemical Bonding and Chemical Reactions, critical vocabulary

2. **Why am I learning this?** Matter bonds and breaks bonds between atoms to form compounds but no atoms are created or destroyed.

3. **How will I know I've learned it?** I can recognize that the number of valence electrons determines an element's chemical properties or chemical reactivity. describe the difference between ionic and covalent bonding. and predict what kind of bond (ionic or covalent) will likely form.

<u>Monday/Tuesday</u> 11/9-10
Learning Activity -
Go over/Make-up Atoms & Periodic Table Quiz
Chem Bonding & Rxns Notes--Questions
Ionic and Covalent bonding mini videos

Assignment -
EdPuzzle Videos and questions.
Chemical Bonding: Who Sticks with Whom? (5 questions matching) wizer.me

<u>Wednesday (At-home learning)</u> 11/11
Assignment - 2nd 9 Weeks Vocabulary Practices 1 and 2 on Wizer.me

<u>Thursday/Friday</u> 11/5-6 (Interims Thursday)
Learning Activity -
1. Ions and Bonding Practice -- Pear Deck
2. 2nd 9 Weeks Vocabulary Review--Quizlet Flashcards
3. 2nd 9 Weeks Vocabulary Quiz

Assignment -
1. Chemical Bonding PS.4 Wizer.me

<u>Next Week 11/16-20/20 (tentative)</u>
Mon/Tues: PS.4 Chemical Bonding and Reactions Practice Wizer.me
Wed: Chemical Bonding Study and Review
Thur/Fri: Chemical Bonding and Reactions **Quiz**, Counting and Chemical Equations Notes

FMS TIGERS

Week of: 11/2/20

Subject: Physical Science 8

SOL(s): **PS.3 and PS.4** Atomic Theory, Atoms, and Periodic Table, 2nd 9 Weeks Vocabulary
PS.3 The student will investigate and understand the modern and historical models of atomic structure. Key concepts include a) Bohr; and b) the modern model of atomic structure
PS.4 The student will investigate and understand the organization and use of the periodic table of elements to obtain information. Key concepts include a) symbols, atomic number, atomic mass, chemical families (groups), and periods; b) classification of elements as metals, metalloids, and nonmetals; c) formation of compounds through ionic and covalent bonding.

1. **What am I learning?** Atomic Theory, Atoms, and the Periodic Table
2. **Why am I learning this?** All matter can be classified by the number of protons and valence electrons.
3. **How will I know I've learned it?** I can understand and describe the subatomic particles and their characteristics, and access atomic and element information using the periodic table.

<u>Monday/Tuesday</u> 11/2-3 (No classes Tuesday 11/3--Election Day)
Warm-Up/Chatterbox -
Find K on the Periodic Table.

Learning Activity -
Honors: Science Fair Form due

Quizlet Live Vocab Practice
Periodic Table Choice Activity:

Exit Ticket - For Atoms and the Periodic Table, what do you still have questions on?

Wednesday (At-home learning) 11/4
Assignment - Individual Kahoot Review for Quiz: **Atomic Structure & Periodic Table Challenge**

Thursday/Friday 11/5-6
Warm-Up/Chatterbox - Give three properties of a metal.

Learning Activity/Assignment - Kahoot Review as a Class

Assignment -
1. Atomic Theory and Periodic Table Quiz
2. Chemical Bonding & Reactions Notes

Exit Ticket - What determines an element's reactivity?

Next Week 11/9-10/20 (tentative)
Mon/Tues: Go over/Make-up Atoms & Periodic Table Quiz, Finish Chem Bonding & Rxns Notes, Chemical Bonding EdPuzzles, Chemical Bonding Practices on Wizer.me
Wed: Vocab practices on Wizer.me
Thur/Fri: 2nd 9 Weeks Vocabulary Quiz, Chemical Bonding and Reactions Activity

FMS TIGERS

Week of: 10/26/20

Subject: Physical Science 8

SOL(s): **PS.3 and PS.4** Atomic Theory, Atoms, and Periodic Table, 2nd 9 Weeks Vocabulary
PS.3 The student will investigate and understand the modern and historical models of atomic structure. Key concepts include a) Bohr; and b) the modern model of atomic structure
PS.4 The student will investigate and understand the organization and use of the periodic table of elements to obtain information. Key concepts include a) symbols, atomic number, atomic mass, chemical families (groups), and periods; b) classification of elements as metals, metalloids, and nonmetals;

1. **What am I learning?** Atomic Theory, Atoms, and the Periodic Table
2. **Why am I learning this?** All matter can be classified by the number of protons and valence electrons.
3. **How will I know I've learned it?** I can understand and describe the subatomic particles and their characteristics, and access atomic and element information using the periodic table.

Monday/Tuesday 10/26-27
Learning Activity -
Valence Electron/Metals/Nonmetals Pear Deck Activity

Assignment -BrainPop Assignment: Atoms
a. Atoms Movie

b. Quiz
c. Worksheet
d. Challenge
e. Sortify Game

<u>Wednesday (At-home learning)</u> 10/28
Assignment - Complete all Atoms BrainPop

<u>Thursday/Friday</u> 10/29-30
Learning Activity/Assignment -
1. Honors - Video and Honors Science Fair Materials
2. Periodic Table Breakout

<u>Next Week 11/2-3/20 (tentative)</u>
Mon: Periodic Table Practice/Game, Chem Bonding & Rxns Notes
Tues: Student Holiday/Teacher Prof Dev Day
Wed: Review for the Atoms, Atomic Theory, & PT Quiz
Thur/Fri: Atoms/Atomic Theory/Periodic Table Review,
Atoms/Atomic Theory/Periodic Table Quiz, Finish Chem Bonding & Rxns Notes

FMS TIGERS

Week of: 10/19/20

Subject: Physical Science 8

SOL(s): **PS.3 and PS.4** Atomic Theory, Atoms, and Periodic Table, 2nd 9 Weeks Vocabulary
PS.3 The student will investigate and understand the modern and historical models of atomic structure. Key concepts include a) Bohr; and b) the modern model of atomic structure
PS.4 The student will investigate and understand the organization and use of the periodic table of elements to obtain information. Key concepts include a) symbols, atomic number, atomic mass, chemical families (groups), and periods; b) classification of elements as metals, metalloids, and nonmetals;

1. **What am I learning?** Atomic Theory, Atoms, and Periodic Table, 2nd 9 Weeks Vocabulary
2. **Why am I learning this?** Understanding terms we are using, All matter can be classified by the number of protons and valence electrons.
3. **How will I know I've learned it?** I can understand and use my 2nd 9 weeks vocabulary words and describe the subatomic particles and their characteristics.

<u>Monday/Tuesday</u> --(Monday Back-to-School Orientation during A1, all M/T classes safety drill procedures reviewed)
Warm-Up/Chatterbox -
1. Snow falling is an example of _____.
2. When acids and bases react they neutralize and produce_____.

Learning Activity -
1. Nature of Matter Quiz Review and Retakes
2. Atoms, Atomic Theory, and Periodic Table Notes

Assignment - Join Quizlet Class, practice vocabulary

Exit Ticket - What Atomic Model do we use today?

Wednesday (At-home learning)
Assignment - 2nd 9 Weeks Vocabulary Practice on Quizlet (15 min. Study on Flashcards, Learn, and Matching Game)

Thursday/Friday
Warm-Up/Chatterbox -

1. Sweet tea, steel, and salt water are all examples of _____.
2. Chocolate chip cookies are my favorite type of_____.

Learning Activity -

1. 2nd 9 Weeks Vocabulary Quizlet Live Game
2. 2nd 9 Weeks Vocabulary Quizlet Test

Assignment - Wizer.me "Atomic and Structure Practice"

Exit Ticket - What is a valence electron?

Next Week 10/26-27/20 (tentative)
Mon/Tues: Periodic Table Activities
Wed: Metal/Nonmetal Venn Diagram
Thur/Fri: More Periodic Table Activities
11/2-3: Atoms/Atomic Theory/Periodic Table Quiz

FMS TIGERS

Week of: 10/12/20

Subject: Physical Science 8

SOL(s): **PS.2** The student will investigate and understand the nature of matter. Key concepts include
a) the particle theory of matter;
b) elements, compounds, mixtures, acids, bases, and salts;
c) solids, liquids, and gases;
d) physical properties;
e) chemical properties; and
f) characteristics of types of matter based on physical and chemical properties.

1. **What am I learning?** Particle Theory of Matter, Classifying Matter by Physical and Chemical Properties
2. **Why am I learning this?** All matter is made up of particles that can be classified according to their characteristics.
3. **How will I know I've learned it?** I can describe the particle theory of matter using physical and chemical properties.

Monday/Tuesday --(Monday Back-to-School Orientation during A1, all M/T classes safety drill procedures reviewed)
Warm-Up/Chatterbox -Safety Drill Procedures

Learning Activity - Nature of Matter Pear Deck

Assignment - Wizer.me "Physical and Chemical Properties and Changes"

Exit Ticket - What state of matter is lightning? (Plasma)

Wednesday (At-home learning)
Assignment - Complete Wizer.me "Physical and Chemical Properties and Changes"

Thursday/Friday
Warm-Up/Chatterbox - Give one example of a chemical property?

Learning Activity -
1. Nature of Matter Kahoot Review
2. Nature of Matter Quiz

Assignment - What science tools do we use to measure the mass of 40 ml of water?

Next Week 10/19-20/20 (tentative)
Mon/Tues: Atoms & Periodic Table Notes, 2nd 9 Weeks Vocabulary
Wed: 2nd 9 Weeks Vocabulary Practice on Quizlet
Thur/Fri: Atomic Model Practices

FMS TIGERS

Week of: 10/5/20

Subject: Physical Science 8

SOL(s): PS.2 a,b,

1. **What am I learning?** Particle Theory of Matter, Matter Classifications, Acids and Bases
2. **Why am I learning this?** All matter is made up of particles that can be classified according to their characteristics.
3. **How will I know I've learned it?** I can describe the particle theory of matter, describe whether a substance is an element, organic or inorganic compound, or a type of mixture.

Monday/Tuesday

Learning Activity - Nature of Matter Notes Due.
1. Go over the Measurement and Density Quiz (Make-up Quiz if missed)
2. Classifying Matter "Nuts and Bolts" Activity Measurement and Density Review

Assignment - Finish the Classifying Matter Activity

Wednesday (At-home learning)
Assignment - Finish the Classifying Matter Activity
Complete any missing assignments and turn in (NHI's in StudentVue/ then find assignment in Google Classroom)

Thursday/Friday (At-home learning)

Learning Activity - Schlesinger Video on Elements, Compounds & Mixtures with Quick Quiz Due
Alien Juice Bar Activity--Identifying Acids and Bases

Next Week 10/12-16/20 (tentative)
Mon/Tues: Particle Theory Pear Deck, Wizer.me practices on Phys/Chem, Phases of Matter
Thur/Fri: Particle Theory Review and Quiz, Atomic Theory Notes

FMS TIGERS

Week of: 9/28/20

Subject: Physical Science 8

SOL(s): PS.1 b, c

1. **What am I learning? PS. 1 b,d** Metric Measurements and Density
2. **Why am I learning this?** To be able to use and read metric measurements, understand density and calculate using the density formula.
3. **How will I know I've learned it?** I can make metric measurements, and calculate density, mass, and volume.

Monday/Tuesday
Warm-Up/Chatterbox - What is the formula for calculating density?

Learning Activity -
1. Finish Pear Deck Metric Measurement and Density Guided Practice
2. Measurement and Density Review

Assignment - Finish or retake the Measurement and Density Review for more practice

Exit Ticket - What is the formula for finding volume? v = m/d or v = m*d

Wednesday (At-home learning)
Assignment - Review notes and activities for Measurement & Density Quiz

Thursday/Friday
Warm-Up/Chatterbox - Which measures the force of gravity, mass or weight?

Learning Activity -
1. Measurement and Density Quiz
2. Nature of Matter Notes

Assignment - Complete Nature of Matter Notes, Watch Schlessinger Video: Elements, Compounds, and Mixtures.

Exit Ticket - What is the number 1 thing you need to do to be successful in science?

Next Week
Mon/Tues: Go over Meas & Dens Quiz

Week of: 9/21/20

Subject: Physical Science 8

SOL(s): PS.1 b, c

1. **What am I learning? PS. 1 b,d** Metric Measurements and Density
2. **Why am I learning this?** To be able to use and read metric measurements, understand density and calculate using the density formula.
3. **How will I know I've learned it?** I can make metric measurements, and calculate density, mass, and volume.

Monday/Tuesday
Learning Activity -
1. Go over the Metrics & Metric Conversion Quiz most missed
2. Highlight Measurement & Density Notes

Assignment - Measurement Activity and Density Activities on Wizer.me

Wednesday (At-home learning)
Assignment -Measuring Matter BrainPop: Movie, Review Quiz, Worksheet, 4-part Challenge

Thursday/Friday
Learning Activity - Pear Deck Review, Measurement Activity and Density Activities on Wizer.me

Assignment - Finish the two Wizer.me assignments Due Mon/Tues 9/28-29

Next Week
Mon/Tues: Measurement and Density Review,
Thurs/Fri: Measurement & Density Quiz
Particle Theory of Matter Note,
sParticle Theory of Matter: Classifying matter as elements, compounds, mixtures, solids, liquids & gases, acids & bases

Week of: 9/14/20

Subject: Physical Science 8

SOL(s): **PS.1 b, c**

1. **What am I learning? PS. 1 b,c** Metric System units and prefixes, Metric Conversions

2. **Why am I learning this?** To be able to compare measurements with different prefixes and convert between different metric units

3. **How will I know I've learned it?** I can convert different metric units and compare them.

Monday/Tuesday
Learning Activity - Amazing Metric Race Breakout Activity (for those who have completed the Metric Basics Practice)

Assignment -

Wednesday (At-home learning)
Assignment -Metric System & Metric conversions Review Kahoot--Individual Practice (Review for the Quiz)

Thursday/Friday
Learning Activity - Metric & Metric Conversion Quiz
BrainPop Assignment: Measuring Matter--Movie, Quiz, Challenge, and Worksheet

Assignment - Complete the BrainPop Measuring Matter Assignment

Next Week
Metric Measurements and Density
Particle Theory of Matter

FMS TIGERS

Week of: 9/7/20

Subject: Physical Science 8

SOL(s): PS.1 c

1. **What am I learning? PS. 1 c** Metric System units and prefixes, Metric Conversions

2. **Why am I learning this?** To be able to compare measurements with different prefixes and convert between different metric units

3. **How will I know I've learned it?** I can convert different metric units and compare them.

Monday/Tuesday (Monday is Labor Day--No School, we only have a B-Day on Tuesday)
Learning Activity - Go over notes
Practice metric measurements and prefixes and metric conversions with "whiteboard" activity

Assignment - A: Day-- Google Slides for demonstrating metric conversions, optional practices

Wednesday (At-home learning)
Assignment -Metric measurements, prefixes, and conversions practice in Google Forms due Thursday/Friday

Thursday/Friday
Learning Activity - Kahoot Live Practice on Metric units, prefixes, comparisons, and metric conversions.

Assignment - Measurement Notes--Fill in and turn in through Google Classroom. Due Mon (A)/Tues (B)
HW: HW: Complete Measurement Notes

Next Week
Amazing Metric Race Breakout Activity
Metrics and Metric Conversions Quiz 9/17-18
Metric Measurements

FMS TIGERS

Week of: 8/31/20

Subject: Physical Science 8

SOL(s): PS.1 g, h, k

1. **What am I learning? PS. 1 g, h, k** The parts of a scientific investigation
2. **Why am I learning this?** To understand the variables, control, and valid conclusions of a scientific experiment, to read data tables and graphs
3. **How will I know I've learned it?** We can identify the parts of a scientific experiment, read data tables and graphs, and determine valid conclusions

Monday/Tuesday
Learning Activity - Scientific Investigation Notes, fill in together
Guided and Independent Practice

Assignment - BrainPop Scientific Method Movie and Worksheet

Wednesday (At-home learning)
Assignment - "IXL" practice on Scientific Investigation

Thursday/Friday
Learning Activity - Review/Practice Scientific Investigation

Assignment - Scientific Investigation Quiz
HW: Metric Conversions Notes

Week of: 8/24/20

Subject: Physical Science 8

SOL(s):

1. **What am I learning? PS 1 a, n:** Getting to know our classroom community and our growth mindset
2. **Why am I learning this?** So we function as a group and understand our potential to learn
3. **How will I know I've learned it?** We find things in common and realize we can learn new things and grow in our learning.

Monday/Tuesday
Learning Activity - Get to the Teacher

Assignment - Get to know you Investigation

Wednesday (At-home learning)
Assignment - Student Profile Sheet

Thursday/Friday
Learning Activity - Growth Mindset Activity

Assignment - Growth Mindset Digital Breakout

Week of: 8/17/20

Subject: Physical Science 8

SOL(s):

1. **What am I learning? I am learning what topics will be covered in science this year and when, and my teacher's expectations, and rules. I will be able to log into my science google classroom.**
2. **Why am I learning this? So that I can be successful and confident in science this year**
3. **How will I know I've learned it? I understand what topics will be taught and my teacher's expectations for the year. I will be able to enter my google classroom and find my assignments and information.**

Monday/Tuesday

Learning Activity - Introduction to the school year and 8th grade

Assignment -

Wednesday (At-home learning)

Assignment - Attendance, HR Google Meet A.M. and P.M together, and Parent Meets

Thursday/Friday

Learning Activity - Introductory movie and powerpoint on physical science topics and teacher expectations.

Assignment - Access our Google Classroom. Fill out the student/parent Welcome response.

Week of:

Subject:

SOL(s):

4. **What am I learning?**
5. **Why am I learning this?**
6. **How will I know I've learned it?**

Monday/Tuesday
Learning Activity -

Assignment -

Wednesday (At-home learning)
Assignment -

Thursday/Friday
Learning Activity -

Assignment -