Physical Science 1st Hour

September 8 – September 12

Monday, September 8

States of Matter

Standards

PSc.2.1.2 - North Carolina
Explain the phases of matter and the physical changes that matter undergoes.

Essential Questions

How do I tell the difference between the states of matter? [solid, liquid, gas and plasma]

Warm Up

Is it melting? Formative Assessment Probe

Objective

Scholars will
PSc 2.1.1 Identify the states of matter [solid, liquid, gas, plasma]
PSc 2.1.2 Understand and diagram the physical changes of matter.

Activity 1

Discuss Changes in matter with guided notes

Activity 2

Flow Map of Physical Changes of Matter

Activity 3

Understand the energy graph needed to have change in state of matter.

Assessment

Formative Probe = Is it Melting?

Study Guide Formative Assessment - Work with table mate.

Tuesday, September 9

Scientific Principles

Standards

PSc.3.1.3 - North Carolina
Explain work in terms of the relationship among the applied force to an object, the resulting displacement of the object and the energy transferred to an object.
PSc.2.1.2 - North Carolina
Explain the phases of matter and the physical changes that matter undergoes.
PSc.2.1.3 - North Carolina
Compare physical and chemical properties of various types of matter.

Essential Questions
How do I tell the difference between the states of matter? [solid, liquid, gas and plasma]

Warm Up
Study quietly- If have ?, ask.

Objective
Scholars will
PSc 2.1.1 Identify the states of matter [solid, liquid, gas, plasma]
PSc 2.1.2 Understand and diagram the physical changes of matter.

Activity 1
Discuss Ch16.2 with guided notes

Activity 2
Practice 16.2

Assessment
Quest at beginning of class

Wednesday, September 10

Pressure

Standards
PSc.3.1.3 - North Carolina
Explain work in terms of the relationship among the applied force to an object, the resulting displacement of the object and the energy transferred to an object.
PSc.3.1.2 - North Carolina
Explain the Law of Conservation of Energy in a mechanical system in terms of kinetic energy, potential energy and heat.

Essential Questions
How do different forces that act upon an object.
How do I tell the difference between the states of matter? [solid, liquid, gas and plasma]

Warm Up
Formative Probe green spine p.77

Objective
Scholars will
PSc 2.1.1 Identify the states of matter [solid, liquid, gas, plasma]

Activity 1
Discuss Ch 16.3 with guided notes

Activity 2
Demos

Assessment
Formative Probe p.77

Questions during Demos and class.

Thursday, September 11

Atoms

Standards
PSc.2.2.1 - North Carolina
Infer valence electrons, oxidation number, and reactivity of an element based on its location in the Periodic Table.
PSc.2.1.4 - North Carolina
Interpret data presented in Bohr model diagrams and dot diagrams for atoms and ions of elements 1 through 18.

Essential Questions
How is the composition of the atom related to Chemistry in general?

Why are atoms important?

How do we know so much about atoms if we can not see them?

Warm Up
Study quietly/ Ask teacher questions

Objective
Scholars will

I will understand the atom both conceptually and mathematically.

I will understand and be able to draw Bohr models and Lewis dot diagrams.

Activity 1
Hand out Atom Project

Resources:

- Atom Project.odt: https://www.filepicker.io/api/file/08JzxmUDRcGg3lxXCejT

Activity 2
Unit Test

Assessment

Unit Test Summative Assessment

Activity 3
Begin Discussion of Atom

Friday, September 12

Atom continued

Standards
PSc.2.2.1 - North Carolina
Infer valence electrons, oxidation number, and reactivity of an element based on its location in the Periodic Table.
PSc.2.1.4 - North Carolina
Interpret data presented in Bohr model diagrams and dot diagrams for atoms and ions of elements 1 through 18.

Essential Questions
How is the composition of the atom related to Chemistry in general?

Why are atoms important?

How do we know so much about atoms if we can not see them?

Warm Up
Formative Probe "Iron Bar" green spine p.17

Objective
Scholars will

I will understand the atom both conceptually and mathematically.

I will understand and be able to draw Bohr models and Lewis dot diagrams.

Activity 1
Discuss Atom with Guided notes

Activity 2
Atoms Family Activity skit

Assessment

EXTRA
Crash Course Chem = Atom

Resources:

- Crash Course Chem = Atom: https://www.youtube.com/watch?v=thnDxFdkzZs