Unit 10: Solutions

Content Area: **Template**

Course(s): Time Period: Length:

Status: Published

State Mandated Topics Addressed in this Unit

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N/A	N/A

Unit 10: Solutions

Learning Objectives

- In a solution of salt water, what are the solute and the solvent?
- Are parts of the solution chemically or physically combined?
- In what ways can you quantify the concentration of a solution?
- Objective 5 Copy and paste
- Objective 6 Copy and paste
- Objective 7 Copy and paste
- Objective 8 Copy and paste
- Objective 9 Copy and paste
- What properties are used to describe the nature of solutions?

Essential Skills

- Calculate the molarity of a solution
- Compare and contrast a concentrated and a dilute solution
- Describe equilibrium with a saturated solution
- Describe factors that affect the solubility of a substance
- Identify factors that affect how fast a substance dissolves
- Put into action the dilution equation (M1V1=M2V2)

Standards

9-12.HS-PS2-6	Communicate scientific and technical information about why the molecular-level structure
	is important in the functioning of designed materials

9-12.HS-PS1-1 Use the periodic table as a model to predict the relative properties of elements based on the patterns of electrons in the outermost energy level of atoms.

Instructional Tasks/Activities

- Common assessment chapter test
- Common assessment quiz
- Constructed response
- Do now's and/or exit slips
- Graphic organizers or models
- Guided practice
- Homework
- Individual, small, and large group work
- Laboratory investigations within small groups
- Review Activity

Assessment Procedure

- Classroom Total Participation Technique
- Classwork
- DBQ
- Essay
- Exit Ticket/Entrance Ticket/Do Now
- Flashcards and/or drill and practice
- Inquiry based activities with reflective discussion
- Journal / Student Reflection
- Kahoot
- Laboratory groups
- Lecture with note taking or guided notes
- Online models and simulators
- Other named in lesson
- Peer Review
- Performance
- Power Point Presentation
- Problem Correction
- Project
- Quiz
- Rubric

- · Teacher Collected Data
- Test
- Whole and small group discussions
- Worksheet

Recommended Technology Activities

- Appropriate Content Specific Online Resource
- Chromebook
- Copy/Paste Content Specific Link Here
- Copy/Paste Content Specific Link Here
- Copy/Paste Content Specific Link Here
- Gimkit
- GoGuardian
- Google Classroom
- Google Docs
- · Google Forms
- Google Slides
- Kahoot
- MagicSchool Al
- Other-Specified in Lesson
- Quiziz
- Screencastify

Accommodations & Modifications & Differentiation

Accommodations and Modifications should be used to meet individual needs. Their IEP and 504 plans should be used in addition to the following suggestions.

Gifted and Talented

- Compare & Contrast
- Conferencing
- Debates
- Jigsaw
- Peer Partner Learning
- · Problem Solving
- Structured Controversy

- Think, Pair, Share
- Tutorial Groups

Instruction/Materials

- alter format of materials (type/highlight, etc.)
- color code materials
- eliminate answers
- extended time
- · extended time
- large print
- modified quiz
- modified test
- · Modify Assignments as Needed
- Modify/Repeat/Model directions
- necessary assignments only
- Other (specify in plans)
- other- named in lesson
- provide assistance and cues for transitions
- provide daily assignment list
- read class materials orally
- reduce work load
- shorten assignments
- study guide/outline
- utilize multi-sensory modes to reinforce instruction

Environment

- alter physical room environment
- assign peer tutors/work buddies/note takers
- · assign preferential seating
- individualized instruction/small group
- · modify student schedule (Describe)
- · other- please specify in plans
- provide desktop list/formula

Honors Modifications

Resources

- Resource 1
- Resource 2
- Resource 3
- Resource 4
- Resource 5