Incorporating AACT Multimedia Resources into Your Chemistry Curriculum

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Need Help?
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Animation
• Classifying Matter

Videos
• ACS Chemical Safety Series
• Arsenic
• Ancient Chemistry
• Frontiers of Chemistry

Measuring Volume
Select the most accurate volume.

7.481 mL  7.4 mL  7.48 mL

Submit Answer

Accompanying Lesson
Chemical Measurements

Exciting Electrons

- Energy Inventory
- Ground State
- Excited State
- Electrons
- Energy

Density

- Solid
- Liquid
- Gas
- T₁ = 50.0°C
- V₁ = 10.00 mL
- D₁ = 0.988 g/mL
- T₂ =
- V₂ =
- D₂ =

Water, 9.88 g

Animations
- Measurement
- Density

Video
- Temperature
- Guys
Atomic Structure

Isotopes & Calculating Average Atomic Mass

Animation
- Orbitals

Videos
- Avogadro
- Lavoisier
- Rutherford
- Bohr
The Periodic Table

Ionization Energy, Atomic Radius, Ionic Radius

Electron Affinity, Atomic Radius, Ionic Radius

Animation
• Atomic & Ionic Radii

Videos
• History of the Periodic Table
• Mendeleev & The Periodic Table
• Disappearing Spoon Series
Chemical Equation and Reactions

Balancing Chemical Equations

Predicting Products

Animation
• Net Ionic Equations
Chemical Reactions and Stoichiometry

Animation
- Limiting Reactant

Stoichiometry

Chemical Reactions and Stoichiometry

Classify the following reaction:

\[ \text{AlPO}_4 \text{(aq)} + \text{Mg} \text{(s)} \rightarrow \text{Al} \text{(s)} + \text{Mg}_3(\text{PO}_4)_2 \text{(aq)} \]

Options:
- Decomposition
- Synthesis
- Single Replacement
- Double Replacement
- Combustion
The Gas Laws

Gas Laws

Animation
• Gases

Videos
• Gases
States of Matter and Phase Change

Heating Curve of Water

Energy Required = 154 kJ

T1 = 0.00
T2 = 132
Preparing Solutions

Animation
  • Solubility

Video
  • What Is Paint?
Thermodynamics

Energy Changes in Chemical Reactions

Videos
- Internal Combustion Engine
- Color Matching Paint
- What are Pigments?
Predicting Shifts in Equilibrium

Animation

• Equilibrium

Predicting Shifts in Equilibrium: $Q$ vs $K$

$$A + B_2 \rightleftharpoons AB_2$$

$[0.0010] + [0.0020] \rightleftharpoons [0.017]$  

$K = 6.8 \times 10^3$

$Q = 8.5 \times 10^3$

Correct!

Question 2: In which direction will equilibrium shift?
Chemical Kinetics

Reaction Rates
Acids and Bases

Video
• Acid & Base Guys

Electrochemistry

Animation
• Galvanic Cell

Videos
• Internal Combustion Engine
• Catalytic Converters
• Alternate Fuels
• Hybrid and Electric Cars
Questions and Wrap Up

• Questions?

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  American Association of Chemistry Teachers (AACT)

• Reminder: Student Video Pass