OWL Assignment Due Dates

Last updated 9/3/2008

Due Date 9/9/2008

| Introduction to OWL |
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| Intro to OWL 1: Navigation, Messages, and Browsers (Homework) |
| Intro to OWL 2: Question Types in OWL (Homework) |
| Intro to OWL 3: Chemical Formulas, Scientific Notation, and Tables |
| Math: 2. Basic Algebra (Homework) |
| 1.2a Homework: States of Matter (Homework) |
| 1.2c Homework: Pure Substances & Mixtures (Homework - Pool) |
| 1.3-4 Homework: Elements & Compounds (Homework - Pool) |
| 1.5c Homework: Density (Homework) |
| 1.6a Homework: Physical & Chemical Properties and Changes |
| 1.6b Active Figure: Separation based on Physical or Chemical |
| 1.6c Active Figure: Chemical Change on the Nanoscale (Exercise or |
| 2.2c Homework: Atomic Composition (Homework - Pool) |
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Due Date 9/16/2008

| 2.4b Homework: Atomic Mass (Homework - Pool) |
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| 2.5a Exercise: Periodic Table Organization (Exercise or Active |
| 2.5b Homework: The Periodic Table (Homework - Pool) |
| 2.5c Homework: Diatomic Elements and Allotropes (Homework - |
| 2.6 Homework: Molecular Compounds (Homework - Pool) |
| 2.7a Active Figure: Ion Formation (Exercise or Active Figure) |
| 2.7d Homework: Monatomic Ions (Homework - Pool) |
| 2.7e Homework: Oxo Anions (Homework - Pool) |
| 2.7f Homework: Other polyatomic ions (Homework - Pool) |
| 2.7h Homework: Polyatomic Ion Structures (Homework - Pool) |
| 2.7j Homework: Ionic Compounds (Homework - Pool) |
| 2.7k Homework: Naming Ionic Compounds (Homework - Pool) |
| 2.8b Homework: Naming Covalent Compounds (Homework - Pool) |
| 2.8c Homework: Mixed Nomenclature (Homework - Pool) |
| 3.2b Active Figure: Balancing Chemical Equations (Exercise or Active |
| 3.2d Homework: Balancing Chemical Equations (Homework - Pool) |

Due Date 9/21/2008

Beginning Survey (Survey)

Due Date 9/23/2008

| 2.9b Homework: Mole/Particle Conversions (Homework - Pool) |
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| 2.9d Homework: Determining Molar Mass (Homework - Pool) |
| 2.9g Homework: Mole Calculations 1 (Homework - Pool) |
| 2.9h Homework: Mole Calculations 2 (Homework - Pool) |
| 2.10f Homework: Empirical/Molecular Formulas (Homework - Pool) |
| 2.11b Homework: Hydrated compounds (Homework - Pool) |
| 6.1a Simulation: The Electromagnetic Spectrum (Simulation) |
| 6.1b Homework: Electromagnetic Spectrum (Homework - Pool) |
| 6.1e Homework: Wavelength/Frequency Relations (Homework - Pool) |
| 6.2d Homework: Energy of Light (Homework - Pool) |
| 6.3a Active Figure: Energy Levels and Interaction with Light (H |
| 6.3b Simulation: Atomic Absorption and Emission (Simulation) |
| 6.3c Homework: H atom - Qualitative (Homework) |
| 6.3e Homework: Hydrogen Calculations (Homework - Pool) |
| 6.4b Homework: Matter Waves (Homework) |
| 6.5a Active Figure: Shells, Subshells, and Orbitals (Exercise or Active |
| 6.5c Homework: Quantum Numbers (Homework) |
| 6.6a Active Figure: Orbital Shapes (Exercise or Active Figure) |
| 6.6b Homework: Shapes of Atomic Orbitals (Homework) |
| 6.7a Active Figure: Electron Spin and Magnetic Fields (Exercise or |
| 6.7b Homework: Electrons and Magnetism (Homework) |
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Due Date 9/30/2008

| 7.1 Homework: Pauli Principle and Orbital Energy (Homework) |
|---|
| 7.2a Active Figure: Subshell Energies in Single and Multielectron |
| 7.2b Homework: Orbital Energies (Homework - Pool) |
| 7.3b Active Figure: Hund's Rule (Exercise or Active Figure) |
| 7.3c Active Figure: Electron Configurations and Periodic Blocks |
| 7.3e Homework: Orbital Energy Diagrams (Homework - Pool) |
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Due Date 10/7/2008

| 7.3g Homework: Electron Configurations (Homework) |
|---|
| 7.3h Homework: Interpret Electron Configuration (Homework - Pool) |
| 7.4c Homework: Electron Configs of Ions (Homework) |
| 7.4e Homework: Para/Diamagnetic (Homework - Pool) |
| 7.5b Homework: Atomic Size (Homework) |
| 7.5e Homework: Ionization Energy (Homework) |
| 7.5i Homework: Ion Size (Homework - Pool) |

Due Date 10/14/2008

| 8.2a Homework: Lewis Symbols for Atoms (Homework - Pool) |
|---|
| 8.2c Exercise: Drawing Lewis Structures (Exercise or Active Figure) |
| 8.3b Homework: Formal Charge (Homework) |
| 8.3c Homework: Oxidation Numbers (review) (Homework) |
| 8.4b Homework: Resonance Structures (Homework) |
| 8.5b Homework: Free Radicals (Homework - Pool) |
| 8.5d Homework: Interpreting Lewis Structures (Homework - Pool) |
| 8.6a Homework: Exploring Geometry 1 (Jmol) (Homework) |
| 8.6b Homework: Exploring Geometry 2 (Jmol) (Homework) |

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| 8.6e Exercise: Determining Molecular Shapes (Exercise or Active |
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| 8.6f Homework: Molecular Geometry (Homework - Pool) |
| 8.7 Homework: Electronegativity and Bond Polarity (Homework - |
| 8.8a Exercise: Determining Polarity of Molecules (Exercise or Active |
| 8.8b Homework: Molecular Polarity (Homework - Pool) |
| 8.9a Homework: Bond Order, Length, Strength (Homework) |
| 8.9c Homework: Bond Energy and Enthalpy of Reaction (Homework - |

Due Date 11/4/2008

| 9.2k Active Figure: Formation of Sigma and Pi Bonds (Exercise or |
|---|
| 9.2I Active Figure: Sigma and Pi Bonding in Ethene (Exercise or |
| 9.2m Active Figure: Structure and Bonding of Allene and Benzene |
| 9.20 Homework: Pi Bonding (Homework) |
| 9.3a Exercise: Bonding and Antibonding Orbitals (Exercise or Active |
| 9.3b Active Figure: Molecular Orbital Diagrams (Exercise or Active |
| 9.3d Homework: Homonuclear Diatomics (Homework) |
| 9.3f Homework: Magnetism of Molecules (Homework) |
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Due Date 11/11/2008

| 3.1 Homework: Chemical Equations - Interpret (Homework - Pool) |
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| 3.2a Exercise: The Law of Conservation of Matter (Exercise or Active |
| 3.3a Homework: Microscopic Reversibility (Homework - Pool) |
| 3.4 Homework: Solution Terminology (Homework - Pool) |
| 3.5a Active Figure: Strong, Weak and Nonelectrolytes (Exercise or |
| 3.5b Active Figure: Dissolution of KMnO4 (Exercise or Active Figure) |
| 3.5c Homework: Strong Electrolytes (Homework - Pool) |
| 3.5d Simulation: Solubility (Simulation) |
| 3.5f Homework: Classify Solubility (Homework) |
| 3.6a Active Figure: Precipitation of Silver Chloride (Exercise or Active |
| 3.6b Homework: Precipitation Reaction (Homework - Pool) |

Due Date 11/18/2008

| 3.6e Homework: NIE - CI-, Br-, I-, Sulfate (Homework - Pool) |
|---|
| 3.6f Homework: NIE - Hydroxide, Sulfide (Homework - Pool) |
| 3.6g Homework: NIE - Carbonate, Phosphate, Any (Homework - |
| 3.7a Homework: Acid Nomenclature (Homework - Pool) |
| 3.7c Homework: Strong/Weak Acids (Homework) |
| 3.7d Homework: Classify Acid/Base/Salt (Homework - Pool) |
| 3.7e Homework: NIE - Acid/Base Reactions (Homework - Pool) |
| 3.8 Homework: Gas forming reactions (Homework - Pool) |
| 3.9b Homework: Oxidation Reduction (Homework) |
| 3.9c Active Figure: Redox Reactions: Mg and HCI (Exercise or Active |
| 3.9d Active Figure: A Redox Reaction: Silver Coating Copper |
| 5.1a Active Figure: Energy Transfer (Exercise or Active Figure) |
| 5.1b Active Figure: Thermal Energy Transfer (Exercise or Active |
| 5.1c Active Figure: Thermal Energy Transfer on the Molecular Scale |
| 5.2e Homework: Specific Heat Calculations (Homework - Pool) |
| 5.3b Homework: Phase Changes (Homework - Pool) |
| 5.3d Homework: Heating Curves (Homework - Pool) |
| 5.4a Active Figure: Boiling Water at Constant Pressure (Exercise or |
| 5.4b Active Figure: Heat and Work (Exercise or Active Figure) |
| 5.4c Homework: First Law Calculations (Homework - Pool) |
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Due Date 11/25/2008

| 5.5a Homework: Thermochemical Equations (Homework - Pool) |
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| 5.5c Homework: Thermochemical Stoichiometry (Homework - Pool) |
| 5.6b Homework: Calorimetry - Coffee Cup (Homework - Pool) |
| 5.6d Homework: Calorimetry - Bomb (Homework - Pool) |
| 5.7b Homework: Hess's Law (Homework - Pool) |
| 5.7d Homework: Enthalpy of Formation (Homework - Pool) |

Due Date 12/2/2008

| 11.1 Homework: Pressure Units (Homework - Pool) | |
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| 11.2a Active Figure: Boyles Law (Exercise or Active Figure) | |
| 11.2b Active Figure: Charles's Law (Exercise or Active Figure) | |

Due Date 12/9/2008

| 11.2c Active Figure: Avogadro's Law (Exercise or Active Figure) |
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| 11.2e Homework: Gas Laws (Homework - Pool) |
| 11.3b Homework: Ideal Gas Law Calculations (Homework - Pool) |
| 11.3f Homework: Gas Density and Molar Mass (Homework - Pool) |
| 11.4b Homework: Gases in Chemical Reactions (Homework - Pool) |
| 11.5c Homework: Partial Pressure Calculations (Homework - Pool) |
| 11.6a Simulation: Kinetic Molecular Theory (Simulation) |
| 11.6b Active Figure: Distribution of Molecular Speeds (Exercise or |
| 11.6e Homework: Kinetic Theory - Qualitative (Homework - Pool) |
| 11.7a Exercise: Diffusion (Exercise or Active Figure) |
| 11.7c Homework: Kinetic Theory - Calculations (Homework - Pool) |

Due Date 12/14/2008

| Final Survey (Survey) | |
|------------------------|--|
| e-Book Survey (Survey) | |