

**CURRICULUM TEMPLATE- EISENHOWER JUNIOR HIGH SCHOOL
2006-2007 6th Grade Science**

Month	Content Materials	Skills addressing state standards	Assessment options	Resources used/additional information
September	Science Lab Safety: <ul style="list-style-type: none"> • Symbols and rules. • Scientific Method • Graphing Data • Scientific Measuring Tools • Introduction of Matter • Volume • Mass and weight • Introduction Metric System 	<ul style="list-style-type: none"> • 11A • 12D • 13A 	<ul style="list-style-type: none"> • Safety Test • Lab Activities for Volume, Mass, Length, Using Metric System. • Quizzes • Chapter Tests 	<ul style="list-style-type: none"> • Flinn's Scientific Contract • Prentice Hall <u>Nature of Science</u> • Glencoe Math Book • Metric Fair Notebook • <u>One Stop Planner</u> CD • <u>Scientific Problem Solving</u> (Video) • Safety Video
October	<ul style="list-style-type: none"> • Graphing • Scientific Method • Mass/ Volume/ Density • Metric Conversions 	<ul style="list-style-type: none"> • 11B • 13A 	<ul style="list-style-type: none"> • Lab Activities for Mass, Volume, and Density • Metric Conversion Activities • Quizzes • Chapter Tests 	<ul style="list-style-type: none"> • Prentice Hall <u>Nature of Science</u> • Glencoe <u>Mathematics Course 1</u> • Chapter 2 (Graphing) • Chapter 12 (Metric Measurement)
November	Atmosphere <ul style="list-style-type: none"> • Layers • Composition • Air Pressure • Air Temperature • Heating • Greenhouse Effect • Winds 	<ul style="list-style-type: none"> • 11A • 12B • 12E • 13A • 13B 	<ul style="list-style-type: none"> • Lab Activities for building a barometer, thermometer, and anemometer • Quizzes • Chapter Test 	<ul style="list-style-type: none"> • Holt <u>Weather and Climate</u> Chapter 1 • One Stop Planner (Red)

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<p>December</p>	<p>Weather</p> <ul style="list-style-type: none"> • Water Cycle • Humidity/Relative Humidity • Types of Clouds • Precipitation • Air Masses and Fronts • Severe Weather • Forecasting Weather 	<ul style="list-style-type: none"> • 11A • 12B • 12E • 13A • 13B 	<ul style="list-style-type: none"> • Lab Activities for Humidity, Clouds, Air Masses, and Weather Prediction • Quizzes • Chapter Test 	<ul style="list-style-type: none"> • Holt <u>Weather and Climate</u> Chapter 2 • One Stop Planner CD (Red) • Weather (video) • Weather Maps
<p>January</p>	<p>States of Matter</p> <ul style="list-style-type: none"> • Solids, Liquids, Gases, and Plasma • Properties of matter (Solids, Liquids, and Gases) • Changes of State (endothermic and exothermic changes) 	<ul style="list-style-type: none"> • 11A • 12C • 13A 	<ul style="list-style-type: none"> • Lab Activities for Properties of Matter, States of Matter and Changes in Matter, Boyles and Charles Law • Quizzes • Chapter Tests 	<ul style="list-style-type: none"> • Holt <u>Introduction to Matter</u> Chapter 2 • One Stop Planner CD (Blue) • <u>Changes in Properties of Matter</u> (Video)

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<p>February</p>	<p>Introduction to atoms.</p> <ul style="list-style-type: none"> • Atomic model and structure. • Isotopes • Atomic mass and mass number. <p>Introduction to Electricity</p> <ul style="list-style-type: none"> • Ch. 1 – Laws of Charges • Electric force • Static electricity • Electric discharge • Electric energy • Voltage • Resistance • Circuits 	<ul style="list-style-type: none"> • 11A • 11B • 12C • 12D • 13A 	<ul style="list-style-type: none"> • Atomic Model Project. • Lab Activities for Periodic Table, Atomic Structure • Quizzes • Chapter Test • Lab Activities for Static Electricity, Electric Discharge, and Electric Circuitry • Big Book of Electricity • Quizzes • Chapter Test 	<ul style="list-style-type: none"> • Holt <u>Introduction to Matter</u> Chapter 4 Sec. 2 only • One Stop Planner CD (Blue) • <u>Atoms and Molecules</u> (Video) • Holt <u>Electricity and Magnetism</u> Chapter 1 • One Stop Planner CD (Blue) • <u>Getting to Know Electricity</u> (Video)
<p>March</p>	<p>Introduction to Electricity</p> <ul style="list-style-type: none"> • Continue from February <p>Electromagnetism</p> <ul style="list-style-type: none"> • Properties of Magnets, Poles and Forces. • Magnetic Fields • Types of Magnets 	<ul style="list-style-type: none"> • 11A • 11B • 12C • 12E • 13A 	<ul style="list-style-type: none"> • Lab Activities for Magnetic Forces and Properties. • Quizzes • Chapter Tests 	<ul style="list-style-type: none"> • Holt <u>Electricity and Magnetism</u> Chapter 2 • <u>One Stop Planner</u> CD (Blue)

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<p>April</p>	<p>Electromagnetism</p> <ul style="list-style-type: none"> • Magnetism from Electricity • Uses of Electromagnetism • Electricity from Magnetism • Generators • Alternating Current • Direct Current • Transformers 	<ul style="list-style-type: none"> • 11A • 11B • 12C • 12E • 13A 	<ul style="list-style-type: none"> • Lab Activities for Electromagnetism, Electric Motors, and solenoids • Quizzes • Chapter Tests 	<ul style="list-style-type: none"> • Holt <u>Electricity and Magnetism</u> Chapter 2 • <u>One Stop Planner</u> CD (Blue)
<ul style="list-style-type: none"> • May 	<p>Environmental Problems and Solutions</p> <ul style="list-style-type: none"> • Pollution • Resource Depletion • Alien Species • Human Population Growth • Habitat Destruction <p>Energy Resources</p> <ul style="list-style-type: none"> • Natural Resources • Fossil Fuels • Alternative Resource 	<ul style="list-style-type: none"> • 11A • 11B • 12A • 12B • 12C • 12E • 13A • 13B 	<ul style="list-style-type: none"> • Lab Activities for Pollution, Environmental Issues, Making a Water Wheel, Solar Energy • Quizzes • Chapter Tests 	<ul style="list-style-type: none"> • Holt <u>Environmental Science</u> Chapters 4 & 5 • One Stop Planner CD (Green) • Watershed Model from SCARCE

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Month	Content Materials	Skills addressing State Standards	Assessment Options	Resources used/additional information
September	Lab Safety	13.A.1	**Lab Safety Test	** "Flinn Scientific's Safety Contract"
	Lab Technique	13.A.1	**Lab Tech. Practicum	**Demonstrate proper handling of Lab equipment (Safety Video)
	Scientific Method	11.A.1-2	**Various Labs: "M&M Lab", "Toilet Paper Lab", "Drops on a Penny Lab", etc...	**Overhead direction of formal lab write up
	"Matter in Motion" Chapter 1: Sec. 1	12.C.4	**Review Game **Point of Ref. w.s.	**Key notes on vocabulary **Text: pg. 2-10
October	"Matter in Motion" Chapter 1: Sec. 2-4 (speed, velocity, acceleration, friction, gravity)	12.C.4 12.D.1-2	**"Speed, Acceleration, & Velocity Problem Packet" **Labs: ("Domino Derby", "Friction 500")	**Text: pg. 11-25 **Key notes on vocabulary ** Worksheets: "Directed Reading", "The Bug Race", "Table Hockey", "Average Speed for Pinewood Derby", "Speedy Journey", "Weighty Problem". Relating Mass to Weight"
	"Forces in Motion" Chapter 2: Sec. 1		**Various Quizzes ** Review Game **Ch. 1 Test **"Newton's Banana"	**Acceleration Poster Project ** Text: pg. 36-42 **Worksheets: "Falling Fast", Graph(Time vs. speed), "A Real Matter of Gravity", Video: NASA- Space basics

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November	<p>Ch.2 : Sec. 2 "Newton's Laws"</p> <p>"Inside the Resrless Earth" Chapter 1: Sec. 1 "Minerals of the Earth's Crust"</p>	<p>12D</p> <p>12E</p>	<p>"Inertia-rama" Video: "Newton's Laws of Motion"</p> <p>Lab: "Mystery Minerals"</p> <p>Concept Map</p>	<p>Text: pg. 43-51</p> <p>Text: pg. 4-7</p> <p>"Mineral or Non-Mineral", "Minerals Matter", "Mineral Makeup", "Directed Reading worksheets"</p> <p>Key notes on vocabulary</p>
December	<p>Ch. 1: Sec. 2-3 "Minerals"</p>	<p>12E</p>	<p>Lab: "Specific Gravity"</p> <p>Review Game</p> <p>Ch. 1 Test</p>	<p>Text:: 8-15 "Using Moh's Scale"</p> <p>Directed Reading Worksheets</p> <p>Key notes on vocabulary</p>

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<p>January</p>	<p>Ch. 2 Sec. 1-4 "Rocks: Mineral Mixtures"</p>	<p>12E</p>	<p>Labs: "Classifying Rocks", "Clasifying Common Igneous Rocks", "Classifying Common Sedimentary Rocks", "Classifying Common Metamorphic Rocks"</p> <p>Quiz (Sec. 1-2)</p> <p>Review Game</p> <p>Ch. 2 Test</p>	<p>Directed Reading Worksheets</p> <p>Key notes on Vocabulary</p> <p>"Rocks & Minerals – What's their Use?"</p> <p>"Be a Rock Hound"</p> <p>"Rock Review"</p> <p>"Rock Term Sort"</p> <p>Video: "Rocks & Minerals" (EJH Library)</p>
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<p>February</p>	<p>“Cells, Heredity, & Classification”</p> <p>Ch. 1: Sec. 1-3</p> <p>Microscope Work</p>	<p>11A, 12a, 12B</p>	<p>Cell poster Project</p> <p>Ch. 1 Crossword Puzzle</p> <p>Plant & Animal Cell Lab</p> <p>Microscope Labs: #5 & #6</p> <p>Microscope Quiz</p> <p>Review Game</p> <p>Ch. 1 Test</p>	<p>Directed Reading Worksheets</p> <p>Comparison Chart</p> <p>Video: “Cells: Structure & Functions”</p>
	<p>Review for the ISAT test</p>	<p>11A, 12C, 13A</p>	<p>Quizzes over Goals 11, 12, and 13</p> <p>Final Exam over Goals 11, 12, 13</p>	<p>The ISAT Science Coach Grade Seven</p> <p>SAP worksheets (Given out weekly since Sept.)</p> <p>Directed Reading Ques.</p> <p>Elements Filmstrip and questions</p> <p>Review for Elements test</p>

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March	Continue with ISAT Review until test days Frog Dissection	12A	Frog questions Paper Frog Frog Lab Practicum Frog Test	Frog Filmstrip, Frog Lab Packet, Questions over Lab Packet, Orally discuss System & Function Charts & Diagrams, Review packet for Frog Lab
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<p>April</p>	<p>“The Cell in Action” Ch. 2: Sec. 1-3</p>	<p>12A</p>	<p>“Into & Out of the Cell”, “Cell Game Show”, Vocab. Review, Diffusion & Osmosis Worksheets 1 & 2, “Activities of the Cell”, A Celluoid Thriller”, “...Radio KCEL “, Labs: “Cell Membrane Concept Maps Cell Processes Quiz Review Game Ch. 2 Test</p>	<p>Directed Reading Worksheets Video: “Cell Movement & Transport” Video: “Mitosis”</p>
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<p>May</p>	<p>“Introduction of Matter”</p> <p>Ch. 3: Sec. 1-3</p>	<p>11A, 12C, & 13A</p>	<p>“Element Search”, “Symbols for Elements”, “Identifying Substances”, “Counting Atoms”, “Balancing Act”</p> <p>Quiz: “Elements & Compounds”, “Balancing Quiz”, “Mixtures Quiz”, “Glurch & Oobleck”</p> <p>Labs: “Mystery Mixture” “Splitting the Water Molecule”, “The Hollow Penny”, “Diffusion of Zinc into Copper”, “Elements, Compounds, & Mixtures”</p> <p>Review Game</p> <p>Ch. 3 Test</p>	<p>Filmstrips: “Elements: The Skeleton of Matter” & follow up worksheet, “Compounds: A Special Combination” & follow up worksheet, “Mixtures: Separate, yet Together”</p> <p>Video: “Elements, Compounds, Mixtures”</p> <p>Key notes on vocabulary</p> <p>Directed Reading Worksheet</p>
<p>June</p>	<p>Hot Air Balloons</p>	<p>12E</p>		

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September	Lab Safety Lab Technique Scientific Method	13.A.1 13.A.1 11.A.1-2	**Lab Safety Test **Lab Tech. Practicum **Various Labs: Bass in the class & water labs • pond water cycles our • topog. Maps of Birchwood Park Pond & Waterfall Glen • Go to Birchwood and do lab and collect water • do ph, nitrates, & ammonia test "M&M lab	** "Flinn Scientific's Safety Contract" **Demonstrate proper handling of Lab equipment (Safety Video) **Overhead direction of formal lab write up

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<p>October</p>	<p>“Matter in Motion” Chapter 1: Sec. 1-4 (speed, velocity, acceleration, friction, gravity) “Forces in Motion”</p>	<p>12.C.4 12.D.1-2</p>	<p>**Macroinvertebrates game ** Stream monitoring with DuPage Co. Forest Preserve people at Waterfall Glen ***“Speed, Acceleration, & Velocity Problem Packet” **Labs: (“Domino Derby”, “Friction 500”, “Soup Can Race”) **Various Quizzes **Ch. 1 Test ** Roller Coaster Project ** Bike lab ** Air cars</p>	<p>**Text: pg. 2-25 **Key notes on vocabulary ** Worksheets: “Directed Reading”, “The Bug Race”, “Table Hockey”, “Average Speed for Pinewood Derby”, “Speedy Journey”, “Weighty Problem”. Relating Mass to Weight” **Acceleration Poster Project **Worksheets: “Falling Fast”, Graph: (Time vs. Speed), “A Real Matter of Gravity”</p>
<p>November</p>	<p>Chapter 2: Sec. 1-3 (Newton’s 3 Laws) “Inside the Restless Earth” Ch. 1-Sec. 1 “Minerals of the Earth’s</p>	<p>12D 12E</p>	<p>***“Newton’s Banana” Concept Maps Lab: “Mystery Minerals”</p>	<p>Text: 34-51 “Inertia-rama”</p>

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	Crust"			<p>Video: NASA- Space basics</p> <p>Text: 4-7 "Mineral or Non-Miineral", "Minerals Matter", Mineral Makeup", Direct. Read. worksheets</p>
December	Ch. 1 – Sec. 2-3 "Minerals"	12E	<p>Lab: "Specific Gravity"</p> <p>Review Game</p> <p>Ch. 1 Test</p>	<p>Text: 8-15 "Using Moh's Scale", Direct. Read. Worksheets</p> <p>Key notes on vocab.</p>
January	<p>Frog Dissection Lab</p> <p>Chapter 2 The Cell in Action C:2:1 Exchange with the Environment</p> <p>C:2:2 Cell Energy</p>	<p>12A</p> <p>12A</p> <p>12A</p>	<p>Frog Questions Paper Frog Frog Lab Practicum Frog test</p> <p>Into and Out of the Cell worksheet Cell Membrane Lab</p> <p>Concept Map over 2:1 and 2:2 Cell Processes quiz</p>	<p>Frog Lab packet Frog filmstrip used to help students label parts of the frog in their lab packets Questions over lab in packet Orally give answers to System and Function chart in frog lab packet Review packet over frog lab Directed Reading Ques. Cells in Action Demo. P. 33 Perfect Taters Mystery p. 186 Diffusion-Osmosis wksht. #1 Diffusion-Osmosis wksht. #2 Video-Cell Movement and Transport Directed Reading Ques. Activities of the Cell wksht. A Celluloid Thriller wksht. Directed Reading Ques. This is Radio KCEL wksht. Mitosis wksht. Video-Mitosis Review for C:2 test pp. 50-51, ques. 1-23</p>

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	C:2:3 The Cell Cycle Chapter 3 Heredity C:3:1 Mendel and His Peas	12A 12 A	Cell Game Show wksht. C:2 Vocab. Rev. Wksht. Chapter 2 Test Incomplete Dominance Wksht. Review for C:3:1 test C:3:1 Test	Directed Reading ques. Genetics Problems wksht. #1 PTC Paper Test Black Sheep wksht. Quick Switch wksht. Pedigree for Myopia wksht. What Color is the Pod? Wksht. Dimples and DNA wksht.
February	Review for the ISAT test C:1:3 Eukaryotic Cells: The Inside Story	11A,12C,13A	Quizzes over Goals 11, 12, and 13 Final Exam over Goals 11, 12, 13 Can You Identify These Cell Structures? Cell Function Plant and Animal Cells lab Cell X-Word Puzzle Building a Eukaryotic Cell-a diagram to label Chapter 1 Review for chapter test Chapter 1 test Elements Quiz Symbols for Elements Wksht. Elements Search wksht. 3:1 Test	The ISAT Science Coach Grade Seven Review blood types, topographic maps, plate tectonics, environmental concerns like acid rain, biomes, greenhouse affect, the water cycle, nitrogen cycle Directed Reading Ques. Elements Filmstrip and questions Review for Elements test Cells: The Basic Units of Life video
March			Electrolysis lab Balancing Chemical Equations quiz Test 3:2	Directed Reading Questions Compounds Filmstrip 3:2 Compounds Notes Counting Atoms wksht.

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	3:3 Mixtures	11A&B, 12C, 13A	Separating Mixtures Lab	Balancing Chemical Equations Review Review for Compounds Test Directed Reading Questions Notes over 3:3
April	3:3 Mixtures	11A&B, 12C, 13A	Glurch Vs Oobleck lab Elements, Mixtures, and Compounds Lab Chapter 3:3 test	Mixtures Filmstrip and questions Brass Penny lab Elements, Compounds, Mixtures wksht. A Classification Scheme wksht. Identification of Substances wksht. Elements, Mixtures, Compounds video Review for Chapter 3:3 test Directed Reading Questions
			** Playground Physics lab ** Preparation for measurements at Great America	

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	Introduction to Matter Chapter 3: Elements, Mixtures, and Compounds 3:1 Elements 3:2 Compounds 3:3 Mixtures		***Great America Trip	
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Month	Content Materials	Skills addressing state standards	Assessment options	Resources used/additional information
September	Lab Safety Scientific Method “Cells, Heredity & Class.” Ch. 3: Sec. 1-2	13.A.1 11.A.1 through .5	Safety Test: Mandatory 100% Labs: “Seeds of a Diff. Color”, “Penny Lab” Models: Amino Acid, DNA Molecule Conversion Chart (Amino Acid – RNA-DNA I –DNA II) Quiz	Signed safety contract Video: “Science Safety”(Follow up Questions) Directed Reading Worksheet Video: “Genes & Heredity” (Follow up questions)
October	“Cells, Heredity, and Classification” Ch. 4: Sec. 1-2	12.A3 11.B.2 11.B.1 12.A.2	Various Punnett Squares Pedigree chart Human Karyotypes Labs: “Onion Root Tip” Review Game Ch. 3 Test	Directed reading Worksheets Worksheets: “Sponge Bob Genetics”, “Incomplete Dominance”, “Meiosis Worksheet & Diagrams”, “Is There a Black Sheep...”, “Should this Dog be Called Spot?”, “Interpreting Graphics”, “Genes & Gene Tech.”

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<p>November</p>	<p>“Interactions of Matter” Ch.1: Sec. 1-2</p>	<p>12.C.3 13.A.1</p>	<p>Concept maps Key notes on vocab. Quizzes Review Games Test: (Chem. Bonds)</p>	<p>Video: “Power of the Periodic Table” (Follow up worksheet) Directed Reading Worksheets Worksheets: “Elem. Word Search”, “Valence Electrons, “Periodic Table Puzzles”, “Periodic Riddles”, “Chemical Bonding”, “Make a Connection”</p>
<p>December</p>	<p>“Interactions of Matter” Ch. 2: Sec. 1-2</p>	<p>12.C.4</p>	<p>Concept map Key notes on vocabulary Quizzes Review Game Tests: Chem. Formulas Labs: Atom vs. Ions”,</p>	<p>Directed Reading Worksheets Worksheets: “Completing Equations”, “Writing Equations”, “Balancing Equations”, “Identifying Equations”</p>
<p>January</p>	<p>“Interactions Of Matter” Ch. 2: Sec. 3</p>	<p>11.A.3 11.A.4 12.E.3 12.E.4</p>	<p>Concept map Quizzes Labs: “Synthesis”, “Decomposition”, Single Replacement”, & “Double Replacement”</p>	<p>Directed Reading Worksheets</p>

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	<p>“Inside the Restless Earth”</p> <p>Ch. 5: Sec. 1-2 “Earthquakes”</p>			
February	<p>“Inside The Restless Earth”</p> <p>Ch. 5: Sec. 3 “Earthquakes”</p> <p>Ch. 6: Sec. 1-2 “Volcanoes”</p>	<p>11.A.3 11.A.4 12.E.3 12.E.4</p>	<p>Concept map</p>	<p>Directed Reading Worksheets</p> <p>Video: “Continents Adrift”</p>
March	<p>“Inside The Restless Earth”</p> <p>Ch. 6: Sec. 3 “Volcanoes”</p> <p>“Investigating Groundwater” (“Cepup</p>	<p>11.A.2 11.A.3 11.A.4 12.E.3 12.E.4 11.A.1 11.B.2 11.A.5</p> <p>12B 11A</p>	<p>Concept map</p> <p>Quizzes</p> <p>Essay: What Causes Explosive Volcanoes to Erupt.</p> <p>Review Game</p> <p>Ch. 6 Test</p>	<p>Video Tapes: Mt. St. Helens and Kilauea</p>

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	Kit")	13B	Map of Fruitvale w/ Contaminated plume Labs: "Solids & Liquids", Parts per Million", "What's your Drilling Plan" "Movement of Plumes"	
April	"Astronomy"			
May	"Rocket Building" Wash. D.C. Trip	11.A.1 11.A.3 11.A.4 13.A.2	Prediction of Altitude Build, launch, and recover rocket	
June	Grad. Practice			

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September	Lab Safety Alcohol and Bunsen burner use Bending and fire polishing glass tubing	13.A.1 11.A.1 to 11.A.5	Safety Test (mandatory 100%)	Penny lab; Chemical A & B; Seeds of a Different Color; signed safety contract; sample lab write up from high school
October	Book: Cells, Heredity, and Classification	12.A.2 to 12.A.3 11.B.1 to 11.B.2	Pedigree Chart Karyotype: normal and abnormal Lab Reports	Black Sheep in the Family; Color of the Pod; Corny Genetics; Mutations
November	Proteins, DNA, and RNA modeling Transcription	12.A.2 to 12.A.3 11.B.1 to 11.B.2	Chapter Test Chapter Review Quizzes Lab Reports ORT slide	DNA Report Card; DNA Bioinformation; Sequencing the Human Genome
December	Introductory Physical Science Section 3 Characteristic Properties	12.C.1 12.C.3	Test on physical properties Questions at end of chapter.	Lab activities: 1. Freezing Point 2. Micromelting Point 3. Boiling Point 4. Density of solids, liquids, and gases

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January	Section 4 Solubility	12.C.1 to 12.C.3	Section Test Questions at end of section Lab Test #2 “3 Liquids”	Lab activities 1. Solid in water 2. Concentration of saturated solutions 3. Alcohol as a Solvent 4. Solubility of gases
February	Section 5: Separation of Substances		Section 5 Test Questions at end of section Lab Test #3 “Sludge)	Lab activities 1. Fractional distillation 2. Separation of insoluble mixtures 3. 3. Separation of mixtures of soluble solids 4. Fractional crystallization 5. Chromatography
March	Section 6 Compounds	12.C.1	Section 6 test Questions at end of section	Lab Activities 1. Decomposition of water 2. Synthesis of zinc chloride 3. Reaction with copper 4. Separation of copper oxide
April	Volcano essay: What causes explosive volcanoes to erupt? Holocaust Unit	11.A.1 to 11.A.5 11.B.3 11.B.3 11.B.5 13.A.2 12.E.1	Final draft of essay Estimating and counting out 6 million grains of rice.	Map of Europe with rice equal to the number of people lost per country stapled on each country.
May	Rocket launch		Build, launch and recover model rocket	Lab report on rocket launch