

Curriculum Map

Subject: Science	Grade Level: 8	Sixth Week: 2	Week: 1																										
Instructional Focus Summary	Chemical Reactions/ States of Matter																												
<p>TEKS/SE</p> <p>(Bolded TEKS/SE are assessed with TAKS)</p> <p><u>(Power TEKS/Student Expectations are Underlined)</u></p> <p>(TEKS below 80% passing on the last TAKS test)</p>	<p>8.10 Science concepts. The student knows that complex interactions occur between matter and energy.</p> <p><u>(A) illustrate interactions between matter and energy including specific heat</u></p> <p><u>(B) describe interactions among solar, weather, and ocean systems</u></p> <p><u>(C) identify and demonstrate that loss or gain of heat energy occurs during exothermic and endothermic chemical reactions</u></p>																												
Concepts/ Vocabulary	<table border="0"> <tr> <td>Activation energy</td> <td>catalyst</td> </tr> <tr> <td>chemical reaction</td> <td>concentration</td> </tr> <tr> <td>chemical equation</td> <td>endothermic reaction</td> </tr> <tr> <td>enzyme</td> <td>exothermic reaction</td> </tr> <tr> <td>inhibitor</td> <td>product</td> </tr> <tr> <td>rate of reaction</td> <td>reactant</td> </tr> <tr> <td>catalyst</td> <td>Activation energy</td> </tr> <tr> <td>concentration</td> <td>chemical reaction</td> </tr> <tr> <td>endothermic reaction</td> <td>chemical equation</td> </tr> <tr> <td>exothermic</td> <td>enzyme</td> </tr> <tr> <td>inhibitor</td> <td>reaction</td> </tr> <tr> <td>rate of reaction</td> <td>product</td> </tr> <tr> <td></td> <td>reactant</td> </tr> </table>			Activation energy	catalyst	chemical reaction	concentration	chemical equation	endothermic reaction	enzyme	exothermic reaction	inhibitor	product	rate of reaction	reactant	catalyst	Activation energy	concentration	chemical reaction	endothermic reaction	chemical equation	exothermic	enzyme	inhibitor	reaction	rate of reaction	product		reactant
Activation energy	catalyst																												
chemical reaction	concentration																												
chemical equation	endothermic reaction																												
enzyme	exothermic reaction																												
inhibitor	product																												
rate of reaction	reactant																												
catalyst	Activation energy																												
concentration	chemical reaction																												
endothermic reaction	chemical equation																												
exothermic	enzyme																												
inhibitor	reaction																												
rate of reaction	product																												
	reactant																												
Resources	<p>Glencoe Texas Science (GTS) Grade 7 Text Book Pages 88-150</p> <p>Glencoe Interactive Lesson Planner</p> <p>Glencoe Lab Manual</p>																												
Instructional Activities	<p>Mini-Lab</p> <p>Introduction Of Concepts</p> <p>Daily Note Sheets</p> <p>Vocabulary Sheets</p> <p>Labs</p> <p>Student Journal</p> <p>In Class Reading And Discussion</p> <p>Hands On Demonstration</p>																												
Assessment	<p>Critical Thinking Exercise</p> <p>Learning Probes</p> <p>Group Discussion</p> <p>Quizzes Lab</p>																												

Integration	Reading (Word Wall)
Intervention	Learning Probes Review Practice Co-Op Re-Instruction Differentiation
Extension	Investigation and discussion of concepts research real word applications

Subject: Science	Grade Level: 8	Sixth Week: 2	Week: 2																										
Instructional Focus Summary	Chemical Reactions/ States of Matter																												
<p>TEKS/SE</p> <p>(Bolded TEKS/SE are assessed with TAKS)</p> <p><u>(Power TEKS/Student Expectations are Underlined)</u></p> <p>(TEKS below 80% passing on the last TAKS test)</p>	<p>8.10 Science concepts. The student knows that complex interactions occur between matter and energy.</p> <p><u>(A) illustrate interactions between matter and energy including specific heat</u></p> <p><u>(B) describe interactions among solar weather and ocean systems</u></p> <p><u>(C) identify and demonstrate that loss or gain of heat energy occurs during exothermic and endothermic chemical reactions</u></p>																												
Concepts/ Vocabulary	<table border="0"> <tr> <td>Activation energy</td> <td>catalyst</td> </tr> <tr> <td>chemical reaction</td> <td>concentration</td> </tr> <tr> <td>chemical equation</td> <td>endothermic reaction</td> </tr> <tr> <td>enzyme</td> <td>exothermic reaction</td> </tr> <tr> <td>inhibitor</td> <td>product</td> </tr> <tr> <td>rate of reaction</td> <td>reactant</td> </tr> <tr> <td>catalyst</td> <td>Activation energy</td> </tr> <tr> <td>concentration</td> <td>chemical reaction</td> </tr> <tr> <td>endothermic reaction</td> <td>chemical equation</td> </tr> <tr> <td>exothermic</td> <td>enzyme</td> </tr> <tr> <td>inhibitor</td> <td>reaction</td> </tr> <tr> <td>rate of reaction</td> <td>product</td> </tr> <tr> <td></td> <td>reactant</td> </tr> </table>			Activation energy	catalyst	chemical reaction	concentration	chemical equation	endothermic reaction	enzyme	exothermic reaction	inhibitor	product	rate of reaction	reactant	catalyst	Activation energy	concentration	chemical reaction	endothermic reaction	chemical equation	exothermic	enzyme	inhibitor	reaction	rate of reaction	product		reactant
Activation energy	catalyst																												
chemical reaction	concentration																												
chemical equation	endothermic reaction																												
enzyme	exothermic reaction																												
inhibitor	product																												
rate of reaction	reactant																												
catalyst	Activation energy																												
concentration	chemical reaction																												
endothermic reaction	chemical equation																												
exothermic	enzyme																												
inhibitor	reaction																												
rate of reaction	product																												
	reactant																												
Resources	<p>Glencoe Texas Science (GTS) Grade 7 text book pages 88-150 Glencoe interactive lesson planner Glencoe lab manual</p>																												
Instructional Activities	<p>Mini-Lab Introduction Of Concepts Daily Note Sheets Vocabulary Sheets Labs Student Journal In Class Reading And Discussion Hands On Demonstration</p>																												
Assessment	<p>Critical Thinking Exercise Learning Probes Group Discussion Quizzes Lab</p>																												

Integration	Reading (Word Wall)
Intervention	Learning Probes Review Practice Co-Op Re-Instruction Differentiation
Extension	Investigation and discussion of concepts research real word applications

Subject: Science	Grade Level: 8	Sixth Week: 2	Week: 3																										
Instructional Focus Summary	Chemical Reactions/ States of Matter																												
<p>TEKS/SE</p> <p>(Bolded TEKS/SE are assessed with TAKS)</p> <p><u>(Power TEKS/Student Expectations are Underlined)</u></p> <p>(TEKS below 80% passing on the last TAKS test)</p>	<p>8.10 Science concepts. The student knows that complex interactions occur between matter and energy.</p> <p><u>(A) illustrate interactions between matter and energy including specific heat</u></p> <p><u>(B) describe interactions among solar weather and ocean systems</u></p> <p><u>(C) identify and demonstrate that loss or gain of heat energy occurs during exothermic and endothermic chemical reactions</u></p>																												
Concepts/ Vocabulary	<table border="0"> <tr> <td>Activation energy</td> <td>catalyst</td> </tr> <tr> <td>chemical reaction</td> <td>concentration</td> </tr> <tr> <td>chemical equation</td> <td>endothermic reaction</td> </tr> <tr> <td>enzyme</td> <td>exothermic reaction</td> </tr> <tr> <td>inhibitor</td> <td>product</td> </tr> <tr> <td>rate of reaction</td> <td>reactant</td> </tr> <tr> <td>catalyst</td> <td>Activation energy</td> </tr> <tr> <td>concentration</td> <td>chemical reaction</td> </tr> <tr> <td>endothermic reaction</td> <td>chemical equation</td> </tr> <tr> <td>exothermic</td> <td>enzyme</td> </tr> <tr> <td>inhibitor</td> <td>reaction</td> </tr> <tr> <td>rate of reaction</td> <td>product</td> </tr> <tr> <td></td> <td>reactant</td> </tr> </table>			Activation energy	catalyst	chemical reaction	concentration	chemical equation	endothermic reaction	enzyme	exothermic reaction	inhibitor	product	rate of reaction	reactant	catalyst	Activation energy	concentration	chemical reaction	endothermic reaction	chemical equation	exothermic	enzyme	inhibitor	reaction	rate of reaction	product		reactant
Activation energy	catalyst																												
chemical reaction	concentration																												
chemical equation	endothermic reaction																												
enzyme	exothermic reaction																												
inhibitor	product																												
rate of reaction	reactant																												
catalyst	Activation energy																												
concentration	chemical reaction																												
endothermic reaction	chemical equation																												
exothermic	enzyme																												
inhibitor	reaction																												
rate of reaction	product																												
	reactant																												
Resources	<p>Glencoe Texas Science (GTS) Grade 7 text book pages 88-150 Glencoe interactive lesson planner Glencoe lab manual</p>																												
Instructional Activities	<p>Mini-Lab Introduction Of Concepts Daily Note Sheets Vocabulary Sheets Labs Student Journal In Class Reading And Discussion Hands On Demonstration</p>																												
Assessment	<p>Critical Thinking Exercise Learning Probes Group Discussion Quizzes Lab</p>																												

Integration	Reading (Word Wall)
Intervention	Learning Probes Review Practice Co-Op Re-Instruction Differentiation
Extension	Investigation and discussion of concepts research real word applications

Subject: Science	Grade Level: 8	Sixth Week: 2	Week: 4		
Instructional Focus Summary	Newton's Laws of Motion				
<p>TEKS/SE</p> <p>(Bolded TEKS/SE are assessed with TAKS)</p> <p><u>(Power TEKS/Student Expectations are Underlined)</u></p> <p>(TEKS below 80% passing on the last TAKS test)</p>	<p>8.7 Science concepts. The student knows that there is a relationship between force and motion.</p> <p><u>(A) demonstrate how unbalanced forces cause changes in the speed or direction of an object's motion</u></p>				
Concepts/ Vocabulary	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> acceleration forces law of motion friction speed unbalanced velocity </td> <td style="width: 50%; vertical-align: top;"> balanced displacement first force second law of motion third law of motion forces </td> </tr> </table>			acceleration forces law of motion friction speed unbalanced velocity	balanced displacement first force second law of motion third law of motion forces
acceleration forces law of motion friction speed unbalanced velocity	balanced displacement first force second law of motion third law of motion forces				
Resources	Glencoe Texas Science (GTS) Grade 7 text book pages 120-180 Glencoe interactive lesson planner Glencoe lab manual				
Instructional Activities	Mini-Lab Introduction Of Concepts Daily Note Sheets Vocabulary Sheets Labs Student Journal In Class Reading And Discussion Hands On Demonstration				
Assessment	Critical Thinking Exercise Learning Probes Group Discussion Quizzes Lab				
Integration	Reading (Word Wall)				
Intervention	Learning Probes Review Practice				

	Co-Op Re-Instruction Differentiation
Extension	Investigation and discussion of concepts research real word applications

Subject: Science	Grade Level: 8	Sixth Week: 2	Week: 5														
Instructional Focus Summary	Newton's Laws of Motion																
<p>TEKS/SE</p> <p>(Bolded TEKS/SE are assessed with TAKS)</p> <p><u>(Power TEKS/Student Expectations are Underlined)</u></p> <p>(TEKS below 80% passing on the last TAKS test)</p>	<p>8.7 Science concepts. The student knows that there is a relationship between force and motion.</p> <p><u>(A) demonstrate how unbalanced forces cause changes in the speed or direction of an object's motion</u></p> <p><u>(B) recognize that waves are generated and can travel through different media</u></p>																
Concepts/ Vocabulary	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">acceleration</td> <td style="width: 50%;">balanced</td> </tr> <tr> <td>forces</td> <td>displacement first</td> </tr> <tr> <td>law of motion</td> <td>force</td> </tr> <tr> <td>friction</td> <td>second law of motion</td> </tr> <tr> <td>speed</td> <td>third law of motion</td> </tr> <tr> <td>unbalanced</td> <td>forces</td> </tr> <tr> <td>velocity</td> <td></td> </tr> </table>			acceleration	balanced	forces	displacement first	law of motion	force	friction	second law of motion	speed	third law of motion	unbalanced	forces	velocity	
acceleration	balanced																
forces	displacement first																
law of motion	force																
friction	second law of motion																
speed	third law of motion																
unbalanced	forces																
velocity																	
Resources	<p>Glencoe Texas Science (GTS)</p> <p>Grade 7 text book pages 120-180</p> <p>Glencoe interactive lesson planner</p> <p>Glencoe lab manual</p>																
Instructional Activities	<p>Mini-Lab</p> <p>Introduction Of Concepts</p> <p>Daily Note Sheets</p> <p>Vocabulary Sheets</p> <p>Labs</p> <p>Student Journal</p> <p>In Class Reading And Discussion</p> <p>Hands On Demonstration</p>																
Assessment	<p>Critical Thinking Exercise</p> <p>Learning Probes</p> <p>Group Discussion</p> <p>Quizzes Lab</p>																
Integration	<p>Reading (Word Wall)</p>																
Intervention	<p>Learning Probes</p> <p>Review Practice</p> <p>Co-Op</p>																

	Re-Instruction Differentiation
Extension	Investigation and discussion of concepts research real word applications

Subject: Science	Grade Level: 8	Sixth Week: 2	Week: 6														
Instructional Focus Summary	Newton's Laws of Motion / Six weeks review																
<p>TEKS/SE</p> <p>(Bolded TEKS/SE are assessed with TAKS)</p> <p><u>(Power TEKS/Student Expectations are Underlined)</u></p> <p>(TEKS below 80% passing on the last TAKS test)</p>	<p>8.7 Science concepts. The student knows that there is a relationship between force and motion.</p> <p><u>(A) demonstrate how unbalanced forces cause changes in the speed or direction of an object's motion; and</u></p> <p><u>(B) recognize that waves are generated and can travel through different media</u></p> <p>8.10 Science concepts. The student knows that complex interactions occur between matter and energy. The student is expected to:</p> <p><u>(B) describe interactions among solar weather and ocean systems</u></p> <p><u>(C) identify and demonstrate that loss or gain of heat energy occurs during exothermic and endothermic chemical reactions</u></p>																
Concepts/ Vocabulary	<table border="0"> <tr> <td>acceleration</td> <td>balanced</td> </tr> <tr> <td>forces</td> <td>displacement first</td> </tr> <tr> <td>law of motion</td> <td>force</td> </tr> <tr> <td>friction</td> <td>second law of motion</td> </tr> <tr> <td>speed</td> <td>third law of motion</td> </tr> <tr> <td>unbalanced</td> <td>forces</td> </tr> <tr> <td>velocity</td> <td></td> </tr> </table>			acceleration	balanced	forces	displacement first	law of motion	force	friction	second law of motion	speed	third law of motion	unbalanced	forces	velocity	
acceleration	balanced																
forces	displacement first																
law of motion	force																
friction	second law of motion																
speed	third law of motion																
unbalanced	forces																
velocity																	
Resources	<p>Glencoe Texas Science (GTS) Grade 7 text book pages 120-180 Glencoe interactive lesson planner Glencoe lab manual</p>																
Instructional Activities	<p>Mini-Lab Introduction Of Concepts Daily Note Sheets Vocabulary Sheets Labs Student Journal In Class Reading And Discussion Hands On Demonstration</p>																
Assessment	<p>Critical Thinking Exercise Learning Probes Group Discussion Quizzes Lab</p>																
Integration	<p>Reading (Word Wall)</p>																
Intervention	<p>Learning Probes Review Practice</p>																

	Co-Op Re-Instruction Differentiation
Extension	Investigation and discussion of concepts research real word applications