

PHASE 2 INSTRUCTIONAL CONTINUITY PLAN

Beginning April 16, 2020



**Physical Science
Physical Science Honors**

**TEXTBOOK CHECKOUT: Florida *Physical Science* –
Mc Graw**

SCHOOL NAME: _____

STUDENT NAME: _____

TEACHER NAME: _____

Topic: Unit 9: Molecules and Chemical Reactions (continued)		
Lesson	Assignment	Date Completed
Unit 9 Lesson 4	<p>Read pages 590-593</p> <p>Task 1: Explain a reaction as:</p> <ol style="list-style-type: none"> Synthesis Single replacement (displacement) Double replacement Decomposition Combustion <p>Task 2: What is oxidation? What is reduction?</p> <p>Assessment: Page 593 Review Questions 12, 14,</p>	
Unit 9, Lesson 5	<p>Read pages 595-601</p> <p>Task 1: Define exergonic change.</p> <p>Task 2: Describe an exergonic reaction.</p> <p>Task 3: Explain how the rate of a chemical reaction is affected by:</p> <ol style="list-style-type: none"> Concentration Surface area Temperature catalysts <p>Assessment: Complete questions 26-28 in Section 4 Review page 604</p>	
Topic: Unit 10: Energy 2 Molecules and Chemical Reactions (continued)		
		Date Completed
Unit 10, Lesson 1	<p>Read pages 114-115 which may be a review</p> <p>Task 1: What is the difference between potential and kinetic energy?</p> <p>Task 2: What are some different forms of potential energy?</p> <p>Task 3: List several examples of how you use different forms of energy every day.</p>	

	<p>Assessment: Do Section 1 Review page 143 Questions 4, 5 and 7</p> <p>Honors Physical Science Additional work:</p> <p>1. Compare the processes of the following nuclear reactions, the energy changes associated with them and their associated safety issues:</p> <ul style="list-style-type: none"> A. radioactive decay B. fission C. fusion <p>2. Explain how the law of conservation of matter and energy apply to chemical reactions.</p>	
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Physical Science Review

Review Topics for Physical Science and Honors Physical Science		
Lesson	Assignment	Date Completed
Review Unit 2	<p>Read pages 80-92, 44-60.</p> <p>Task 1: What are Newton’s three laws of motion?</p> <p>Task 2: Apply Newton’s laws to a car crash.</p> <p>Task 2: Define position, velocity and acceleration.</p> <p>Assessment: Answer Review 3 question 23, Chapter Review page 66 questions 49, 50, and 52</p>	
Review Unit 3	<p>Read pages 76-79</p> <p>Task 1: Define Gravity.</p> <p>Task 2: Explain how a change in the mass or the distance of two objects will impact the gravitational attraction between them.</p>	

	<p>Task 3: What is the difference between weight and mass?</p> <p>Assessment: Do Review questions page 79 question 4.</p>	
Topic: Review Topics for Physical and Honors Physical Science		
		Date Completed
Review Unit 4a	<p>Read page 120-127</p> <p>Task 1: What is mechanical energy?</p> <p>Task 2: Why is mechanical energy not always conserved?</p> <p>Task 3: How are power and energy related?</p> <p>Assessment: Review 29 page 127 do question 29, and 30.</p>	
Review 4b	<p>Read pages 104-108, 109-112</p> <p>Task 1: Use the formulas for work and power to compare and contrast the concepts of work and power.</p> <p>Assessment: Do question 10 on page 112 Section 1 Review.</p>	
Review Unit 5	<p>Read pages 345-351, pages 340-343, 315-316</p> <p>Task 1: What are the main divisions of the electromagnetic spectrum?</p> <p>Task 2: Describe how electromagnetic waves transfer energy to matter?</p> <p>Task 3: Do the vocabulary questions on page 362 20-25</p> <p>Task 4: What is the Doppler Effect?</p> <p>Task 5: What are two uses of the Doppler Effect?</p> <p>Assessment: Do Chapter Review page 362 questions 26, 27 and 29</p>	
Review Unit 6	<p>Read pages 173-174, page 749, pages 178-183, page 185-189</p> <p>Task 1: Explain the difference between conductors, semiconductors and insulators</p> <p>Task 2: Define current, voltage, and resistance</p>	

	<p>Task 3: Draw figure 17 picture of circuit on page 185</p> <p>Assessment: Chapter 6 Review do questions 38, 44 and 45 on page 196</p>	
Review Unit 7	<p>Read pages 432-436,469-474, 464-465, 465-468, 139, 449</p> <p>Task 1: Differentiate between the four states of matter in terms of:</p> <ol style="list-style-type: none"> Volume Particle motion <p>Task 2: What is the difference between a physical and a chemical property of a substance?</p> <p>Task 3: Explain a physical change in water.</p> <p>Task 4: What is mixture? What is the difference between a homogeneous and heterogeneous mixture?</p> <p>Task 5: As temperature increases does the average kinetic energy increase or decrease?</p> <p>Task 6: As pressure on a gas increases does the volume of a gas increase or decrease?</p> <p>Assessment: page 482 Chapter 15 Review do questions 16, 18, 20, and 26</p>	
Review Unit 8	<p>Read pages 489, 502-504</p> <p>Task 1: What are the proton's, neutron's, and electron's?:</p> <ol style="list-style-type: none"> Charges Locations in the atom <p>Task 2: Identify patterns in the periodic table according to:</p> <ol style="list-style-type: none"> Mass Number of protons Atomic radius Chemical properties <p>Assessment: Chapter 16 Review page 512 do questions 24, 29, and 31</p>	
Review Unit 9	<p>Read pages 678-681, 686</p> <p>Task 1: What common acid is used in a car battery?</p>	

	<p>Task 2: If the pH is 9, is the chemical an acid or a base?</p>	
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Task 3: Why does blood maintain a pH between 7.0 and 7.8?

Assessment: Chapter 22 Review on page 700 do questions 28 and 29.