

Wk	Std	Monday	Tuesday	Wednesday	Thursday	Friday
4		No school	<p><u>Obj./Essential question:</u> Optimum enzyme activity</p> <p><u>Warm up:</u> What are enzymes?</p> <p><u>D.I.</u> Enzymes PPT ~ How pH and Temp. effect enzyme activity Ch. 6.3 pg157-169</p> <p><u>Guided Practice:</u> Online enzyme activity</p> <p><u>Independent Practice:</u> Enzymes foldable</p>	<p><u>Obj./Essential question:</u> ~Allosteric and Active sites ~ Feedback Inhibition</p> <p><u>Warm up:</u> What controls enzyme activity?</p> <p><u>D.I.</u> – Enzyme ppt ~Allosteric and Active sites ~ Feedback Inhibition Ch. 6.3 pg157-169</p> <p><u>Guided Practice:</u> Guided Animations & Video tutorials</p> <p><u>Independent Practice:</u> Review guide questions</p>	<p><u>Obj./Essential question:</u> Review all concepts</p> <p><u>Warm up:</u> What is the optimal temperature for enzyme function?</p> <p><u>DI</u> – N.A Ch. 6.3 pg157-169</p> <p><u>Guided Practice:</u> Board races</p> <p><u>Independent Practice:</u> Review guide questions</p>	<p><u>Obj./Essential question:</u></p> <p><u>Warm up:</u></p> <p><u>D.I.</u></p> <p><u>Guided Practice:</u></p> <p><u>Independent Practice:</u> Enzymes Test</p>
5	1a	<p><u>Obj./Essential question:</u> ~What are the main functions of membranes? ~What are phospholipids? ~What does semi-permeable mean? ~What is a phospholipid bilayer? ~What are the major components of a membrane?</p> <p><u>Warm up:</u> -</p>	<p><u>Obj./Essential question:</u> What is polar/non-polar regions of membranes ~What is diffusion(concentration gradient) ~What is osmosis? ~Passive v.s active transport</p> <p><u>Warm up:</u> Who smells the perfume?</p>	<p><u>Obj./Essential question:</u> ~tonicity ~endocytosis/exocytosis</p> <p><u>Warm up:</u> ppt opener – name 2 gases that pass directly through the phospholipid bilayer</p> <p><u>D.I.</u> – PPT ~tonicity ~endocytosis/exocytosis Ch. 8.1 pg. 195 -</p>	<p><u>Obj./Essential question:</u> How does osmosis and diffusion work through a semipermeable membrane in solutions of different tonicity?</p> <p><u>Warm up:</u> What is osmosis?</p> <p><u>D.I.</u> N/A Ch. 8.1 pg. 195 -</p>	<p><u>Obj./Essential question:</u> review all topics</p> <p><u>Warm up:</u> Ppt opener - What is facilitated diffusion and is it active or passive transport?</p> <p><u>D.I.</u> – Review all concepts</p> <p><u>Guided Practice:</u> ~Board Races ~Video/animation</p>

		<p>write down things you know that have “membranes”</p> <p>D.I. : membrane structure ppt</p> <p>~What are the main functions of membranes?</p> <p>~What are phospholipids?</p> <p>~What does semi-permeable mean?</p> <p>~What is a phospholipid bilayer?</p> <p>~What are the major components of a membrane?</p> <p>Ch. 7.2 pg. 175 - 178</p> <p><u>Guided Practice:</u> label the membrane</p> <p><u>Independent Practice:</u> - ppt worksheet</p>	<p>D.I. - PPT</p> <p>What is polar/non-polar regions of membranes</p> <p>~What is diffusion(concentration gradient)</p> <p>~What is osmosis?</p> <p>~Passive v.s active transport</p> <p>Ch. 7.2 pg. 175 - 178</p> <p><u>Guided Practice:</u> Video/animation walkthrough</p> <p><u>Independent Practice:</u> ppt worksheet</p>	<p>200</p> <p><u>Guided Practice:</u> Video/animation walkthrough</p> <p><u>Independent Practice:</u> ppt worksheet</p>	<p>200</p> <p><u>Guided Practice:</u> Read lab procedures</p> <p><u>Independent Practice:</u> Osmosis/diffusion Lab experiment or ~Gummi-bear Osmosis lab</p>	<p>walkthrough</p> <p><u>Independent Practice:</u> ~Membranes/transport foldable ~Membranes structure quiz</p>
6	1a	<p><u>Obj./Essential question:</u> review all topics</p> <p><u>Warm up:</u> How do paramecia deal with the problem of excess water?</p> <p><u>D.I.</u> – Review all concepts</p> <p>Ch. 7.2 pg. 175 - 178</p> <p><u>Guided Practice:</u> ~Board Races ~Video/animation walkthrough</p>	<p><u>Obj./Essential question:</u> N/A</p> <p><u>Warm up:</u> N/A</p> <p><u>D.I.</u> N/A</p> <p><u>Guided Practice:</u> N/A</p> <p><u>Independent Practice:</u> Membrane structure & Transport Test</p>	<p><u>Obj./Essential question:</u>review all topics for 6 weeks exam</p> <p><u>Warm up:</u> N.A</p> <p><u>D.I.</u> – N/A</p> <p><u>Guided Practice:</u> jeopardy</p> <p><u>Independent Practice:</u> review sheet</p>	<p><u>Obj./Essential question:</u>review all topics for 6 weeks exam</p> <p><u>Warm up:</u> N.A</p> <p><u>D.I.</u> – N/A</p> <p><u>Guided Practice:</u> jeopardy</p> <p><u>Independent Practice:</u> review sheet</p>	<p><u>Six weeks exam</u></p>

		<p><u>Independent Practice:</u> Membranes coloring worksheet</p>				
7	1(c, a,d, e,f, g,j)	<p><u>Obj./Essential question:</u> ~Review facts about living things ~History of cells & cell theory Ch. 7.1 pg. 171 - 174 <u>Warm up:</u> Who was the first person to view living Cells? <u>D.I.</u> – Cells PPT ~Review facts about living things ~History of cells & cell theory <u>Guided Practice:</u> Guided Animations & Video tutorials <u>Independent Practice:</u> cells ppt work sheet</p>	<p><u>Obj./Essential question:</u> ~Endosymbiosis ~Cell types and sizes <u>Warm up:</u> A cell’s shape determines its _____? <u>D.I.</u> Cells ppt ~Endosymbiosis ~Cell types and sizes Ch. 7.1 pg. 171 - 174 <u>Guided Practice:</u> Guided Animations & Video tutorials <u>Independent Practice:</u> cells ppt work sheet</p>	<p><u>Obj./Essential question:</u> ~Prokaryotes v.s Eukaryotes <u>Warm up:</u> Describe the relationship between cell shape and cell function. <u>D.I.</u> – Cells PPT ~Prokaryotes v.s Eukaryotes Ch. 7.1 pg. 171 - 174 <u>Guided Practice:</u> ~Cells alive lesson <u>Independent Practice:</u> cells foldable</p>	<p><u>Obj./Essential question:</u> ~cell membrane ~cell wall ~cytoplasm <u>Warm up:</u> Name the major organelles found in a eukaryotic cell & describe their function. <u>D.I.</u> – Cell PPT ~cell membrane ~cell wall ~cytoplasm Ch. 7.3 pg179 - 193 <u>Guided Practice:</u> Guided Animations & Video tutorials <u>Independent Practice:</u> Cell city</p>	<p><u>Obj./Essential question:</u> ~Nucleus ~Nuclear envelope ~Nucleolus <u>Warm up:</u> What are clusters of atoms that attach to organic compounds and give them new properties called? <u>D.I.</u> – CELL PPT ~Nucleus ~Nuclear envelope ~Nucleolus Ch. 7.3 pg179 - 193 <u>Guided Practice:</u> Guided Animations & Video tutorials <u>Independent Practice:</u> Worksheet review</p>
8	1(c, a,d, e,f, g,j)	<p><u>Obj./Essential question:</u> ~Cytoskeleton ~Centrioles & the mitotic spindle <u>Warm up:</u> Read pre-lab <u>D.I.</u> Cell PPT ~Cytoskeleton ~Centrioles & the mitotic spindle</p>	<p><u>Obj./Essential question:</u> ~Mitochondria ~Endoplasmic reticulum <u>Warm up:</u> Invent a cell <u>D.I.</u> Cell PPT ~Mitochondria ~Endoplasmic reticulum</p>	<p><u>Obj./Essential question:</u> ~Ribosomes ~Golgi bodies ~ Lysosomes <u>Warm up:</u> Name the 3 basic parts of all eukaryotic cells. <u>D.I.</u> Cells PPT ~Ribosomes ~Golgi bodies</p>	<p><u>Obj./Essential question:</u> ~Cilia&Flagella ~Vacules ~Chloroplasts <u>Warm up:</u> Arrange the levels of organization in order from cell to organism <u>D.I.</u> - Cell PPT</p>	<p><u>Obj./Essential question:</u> ~Cell size & surface area to volume ratio <u>Warm up:</u> How do prokaryotes differ from eukaryotes? <u>D.I.</u> - N/A <u>Guided Practice:</u> Guided</p>

		<p>Ch. 7.3 pg179 - 193 Guided Practice: Create a cell Lab</p> <p>Independent Practice: Answer pre-lab questions</p>	<p>Ch. 7.3 pg179 - 193 Guided Practice: Create a cell Lab</p> <p>Independent Practice: Answer post lab questions</p>	<p>~ Lysosomes Ch. 7.3 pg179 - 193 Guided Practice: ~Guided Animations & Video tutorials ~Board races</p> <p>Independent Practice: Review worksheet</p>	<p>~Cillia&Flagella ~Vacules ~Chloroplasts Ch. 7.3 pg179 - 193 Guided Practice: Guided Animations & Video tutorials</p> <p>Independent Practice: Review worksheet</p>	<p>Animations & Video tutorials ~Board races ~Jeopardy</p> <p>Independent Practice: Review worksheet</p>
9	1f; 1i	<p>Obj./Essential question: N/A</p> <p>Warm up: N/A</p> <p>D.I. N/A</p> <p>Guided Practice: N/A</p> <p>Independent Practice: Cell structure and Organelle function Test</p>	<p>Obj./Essential question: ~what is photosynthesis?</p> <p>Warm up: Name the main pigment in plants that traps light.</p> <p>D.I. Photosynthesis PPT ~what is photosynthesis? Ch9.2 pg 225 - 230 Guided Practice: Guided Animations & Video tutorials</p> <p>Independent Practice: Cells ppt questions review sheet</p>	<p>Obj./Essential question: ~where does photosynthesis take place?</p> <p>Warm up: Sketch and label the parts of a chloroplast.</p> <p>D.I. Photosynthesis PPT ~where does photosynthesis take place? Ch9.2 pg 225 - 230</p> <p>Guided Practice: Guided Animations & Video tutorials</p> <p>Independent Practice: Cells ppt questions review sheet</p>	<p>Obj./Essential question: ~Why are plants green ~Why do leaves change color?</p> <p>Warm up: Describe how the structure of the chloroplast relates to its function.</p> <p>D.I. Photosynthesis PPT ~Why are plants green ~Why do leaves change color? Ch9.2 pg 225 - 230</p> <p>Guided Practice: Guided Animations & Video tutorials</p> <p>Independent Practice: Cells ppt questions review sheet</p>	<p>Obj./Essential question: ~what is the chemical reaction for photosynthesis ~What do cells use for energy? ~How does ATP work to store energy</p> <p>Warm up: Distinguish between C₄ and CAM plants.</p> <p>D.I. Photosynthesis PPT ~what is the chemical reaction for photosynthesis ~What do cells use for energy? ~How does ATP work to store energy Ch9.2 pg 225 - 230</p> <p>Guided Practice: Guided Animations & Video tutorials</p>

						<u>Independent Practice:</u> Cells ppt questions review sheet
10	<p><u>Obj./Essential question:</u> ~Light dependent Reactions</p> <p><u>Warm up:</u> Name the 2 reactants (chemical compounds) that combine to form glucose & O₂ during the photosynthesis reaction.</p> <p><u>D.I.</u> Photosynthesis PPT ~ETC ~Photosystem II & I Ch9.2 pg 225 - 230</p> <p><u>Guided Practice:</u> ~Guided Animations & Video tutorials ~Photosynthesis Online Lab</p> <p><u>Independent Practice:</u> Cells ppt questions review sheet</p>	<p><u>Obj./Essential question:</u> ~Light dependent Reactions</p> <p><u>Warm up:</u> Once NADP+ is reduced (accepts e- and H+), what is the formula for the reduced molecule?</p> <p><u>D.I.</u> Photosynthesis PPT ~Proton Gradient ~ATP Synthase Ch9.2 pg 225 - 230</p> <p><u>Guided Practice:</u> ~Guided Animations & Video tutorials ~Photosynthesis Online Lab</p> <p><u>Independent Practice:</u> ~Cells ppt questions review sheet ~Cells matching</p>	<p><u>Obj./Essential question:</u> ~Light Independent reactions</p> <p><u>Warm up:</u> Name the process used by certain organisms that capture sunlight and make organic compounds?</p> <p><u>D.I.</u> Photosynthesis PPT ~Calvin Cycle Ch9.2 pg 225 - 230</p> <p><u>Guided Practice:</u> Guided Animations & Video tutorials</p> <p><u>Independent Practice:</u> ~Cells ppt questions review sheet ~Plant and animal cell color & Label</p>	<p><u>Obj./Essential question:</u> ~Light Independent reactions</p> <p><u>Warm up:</u> When is carbon dioxide used in photosynthesis?</p> <p><u>D.I.</u> Photosynthesis PPT ~Products of the calvin cycle ~Where it happens Ch9.2 pg 225 - 230</p> <p><u>Guided Practice:</u> Guided Animations & Video tutorials</p> <p><u>Independent Practice:</u> ~Cells ppt questions review sheet ~Parts of a eukaryotic cell</p>	<p><u>Obj./Essential question:</u> ~Review all objectives</p> <p><u>Warm up:</u> In which photosystem is sunlight used and water split?</p> <p><u>D.I.</u> Ch9.2 pg 225 - 230</p> <p><u>Guided Practice:</u> Guided Animations & Video tutorials</p> <p><u>Independent Practice:</u> Cell structure and function study guide</p>	
11	<p><u>Obj./Essential question:</u> N/A</p> <p><u>Warm up:</u> N/A</p> <p><u>D.I.</u> N/A</p>	<p><u>Obj./Essential question:</u> ~What is ATP? ~How do we get energy from ATP? ~How is ATP regenerated after</p>	<p><u>Obj./Essential question:</u> ~What is cellular respiration?(over view) ~Overall equation ~What carries</p>	<p><u>Obj./Essential question:</u> ~Other facts about cell res. ~What are the stages of cellular respiration? ~Where does</p>	<p><u>Obj./Essential question:</u> ~Review of mitochondria structure ~Diagram the process ~glycolysis</p>	

	<p><u>Guided Practice:</u> N/A</p> <p><u>Independent Practice:</u> Photosynthesis Test</p>	<p>it is hydrolized?</p> <p><u>Warm up:</u> How do plants make ATP?</p> <p><u>D.I.</u> Cellular Respiration PPT ~What is ATP? ~How do we get energy from ATP? ~How is ATP regenerated after it is hydrolized? Ch. 9.1 pg 221 - 224</p> <p><u>Guided Practice:</u> Guided Animations & Video tutorials</p> <p><u>Independent Practice:</u> PPT Question guide</p>	<p>electrons?</p> <p><u>Warm up:</u> What organelle in eukaryotic cells is responsible for cellular respiration?</p> <p><u>D.I.</u> Cellular Respiration PPT ~What is cellular respiration?(over view) ~Overall equation ~What carries electrons? Ch. 9.1 pg 221 - 224</p> <p><u>Guided Practice:</u> ~Guided Animations & Video tutorials ~Online Respiration Lab</p> <p><u>Independent Practice:</u> PPT Question guide</p>	<p>cellular respiration take place?</p> <p><u>Warm up:</u> Where does the electron transport chain occur in the cell?</p> <p><u>D.I.</u> Cellular Respiration PPT ~Other facts about cell res. ~What are the stages of cellular respiration? ~Where does cellular respiration take place? Ch. 9.3 pg. 231 - 244</p> <p><u>Guided Practice:</u> ~Guided Animations & Video tutorials ~Online respiration Lab</p> <p><u>Independent Practice:</u> PPT Question guide</p>	<p>~Fermentation</p> <p><u>Warm up:</u> Name the process whereby cells break down glucose in cells to release most of the sugar's energy</p> <p><u>D.I.</u> Cellular Respiration PPT ~Review of mitochondria structure ~Diagram the process ~glycolisis ~Fermentation Ch. 9.1 pg 221 - 224</p> <p><u>Guided Practice:</u> Guided Animations & Video tutorials</p> <p><u>Independent Practice:</u> PPT Question guide</p>
12	<p><u>Obj./Essential question:</u> ~Krebs cycle</p> <p><u>Warm up:</u> Name the 2 types of fermentation and tell whether oxygen is or isn't required for fermentation.</p>	<p><u>Obj./Essential question:</u> ~Electron Transport chain</p> <p><u>Warm up:</u> Compare and contrast alcoholic and lactic acid fermentation.</p>	<p><u>Obj./Essential question:</u> ~Krebs cycle ~Electron Transport chain</p> <p><u>Warm up:</u> NADH and FADH₂ that enter the ETC are produced in</p>	<p><u>Obj./Essential question:</u> Review all topics</p> <p><u>Warm up:</u> What gas is added at the end of the ETC and what product is made?</p>	<p><u>Six weeks exam</u> (Focusing on respiration)</p>

	<p><u>D.I.</u> Cellular Respiration PPT ~Krebs cycle Ch. 9.1 pg 221 - 224</p> <p><u>Guided Practice:</u> ~Guided Animations & Video tutorials ~Cellular respiration Lab Online</p> <p><u>Independent Practice:</u> ~PPT Question guide ~cellular respiration word scramble</p>	<p><u>D.I.</u> Cellular Respiration PPT ~Electron Transport chain Ch. 9.1 pg 221 - 224</p> <p><u>Guided Practice:</u> Guided Animations & Video tutorials ~Cellular respiration Lab Online</p> <p><u>Independent Practice:</u> ~PPT Question guide ~Cellular respiration foldable</p>	<p>which part of cellular respiration?</p> <p><u>D.I.</u> Cellular Respiration PPT ~Krebs cycle ~Electron Transport chain Ch. 9.1 pg 221 - 224</p> <p><u>Guided Practice:</u> ~Guided Animations & Video tutorials ~Board races</p> <p><u>Independent Practice:</u> PPT Question guide</p>	<p><u>D.I.</u> Socratic Review Ch. 9.1 pg 221 - 224</p> <p><u>Guided Practice:</u> ~Guided Animations & Video tutorials ~ jeopardy</p> <p><u>Independent Practice:</u> PPT Question guide</p>	
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