WEEK OF: March 22, 2021

Class: Biochemistry – A/B/C/D Blocks

Teacher: Mrs. Burke

Contact Info: Deborah.Burke@thedeltahighschool.com, Teams, and Remind

Office Hours: 1:00-1:30 MTRF, 1:00-2:00 W

Zoom Links: See Teams "Meeting Links" channel for class and office hour access

Objectives:

- Develop understanding of Fever: regulation, scientific determination of "typical"
- Explore heat and structural change in proteins
- Develop understanding of amino acid structure and protein synthesis and decomposition
- Utilize molecular models to explore and communicate

Synchronous Agenda		
Lesson 1	Fever regulation (IL-1 and hypothalamus), "typical" values determination, bias	
Lesson 2	Amino acid structure, dehydration synthesis, hydrolysis to decompose, molecular models	

Asynchronous Responsibilities		
Resource	Select one Enzyme item AND one Protein item	
Interactions	Enzymes:	
	Reading	
	"The Effects of Temperature on Enzyme Activity and Biology"	
	https://sciencing.com/effects-temperature-enzyme-activity-biology-6049.html	
	Video:	
	"Explain factors affecting enzyme activity"	
	https://www.youtube.com/watch?v=D2j2KGwJXJc&t=134s	
	Proteins:	
	Reading:	
	"Proteins" (read all three pages – click at bottom to navigate)	
	https://www.bbc.co.uk/bitesize/guides/zswqq6f/revision/1	
	Video:	
	"Protein – Structure Of Protein – What Is Protein Made Of – Structure Of	
	Amino Acids Building Blocks"	
	https://www.youtube.com/watch?v=Gi9A56nu01E	
Activities	1. Describe how you will organize your journal – Teams "Response	
	Prompts" channel assignment	
	2. Cook a protein (meat, poultry, seafood, egg) and record the changes as	
	heat is applied.	
Worksheets	N/A	
Journal	• Prep for entry task: Why are fevers dangerous? <i>Be ready to put SOME</i>	
Entries	INFO into the chat when you arrive to Lesson 2	
	◦ Lab response	

	• Vocab: enzyme, denature, rate of reaction, substrate, dehydration synthesis, hydrolysis
	• <u>Resource Interaction Responses:</u>
	Interaction key concept summary sentences and/or annotated drawing
	Examples
	Questions and/or ponderings you have
Quiz	N/A

Asynchronous Time

Complete resource interactions, activities, journal entries

Work with others to support and enhance learning

Attend office hours: seek assistance, share resources and information, work with others

DUE DATES:

A Cohort/Distance Classes - Due by Monday March 29th at 8:00 AM:

B Cohort - Due by Thursday April 1st at 8:00 AM:

- Engage with required resources •
- Respond to the prompt assComplete the lab activity Respond to the prompt assignment
- Complete ALL journal entries