



Life Science 7
Mrs. Duddles

**Q3 – Cells and Human Body
Systems**

Monday 04/03 – Friday 04/07

WCS District – Spring Break

No Classes

Friday 03/31 – ½ Day AM Only

Objectives:

- Students will discuss the chemical makeup of living things.
- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.

White Space Question:

Can you think of an example of an atom and an example of a molecule?

Agenda:

- Watch BBC Planet Earth series segment “Mountains”
- Finish Activity 17 “The Chemistry of Life”; be ready for discussion & review after break
- Have a great Spring Break!

Thursday 03/30

Objectives:

- o Students will discuss the chemical makeup of living things.
- o Students will describe the different levels of organization in living things.
- o Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.

White Space Question:

Finish “Families of Elements” lab packet Analysis Questions.

Agenda:

- o Discuss and review Activity 17A “Families of Elements” lab activity
- o Discuss and review Activity 17 “The Chemistry of Life” assigned book reading and questions if time

Wednesday 03/29

Objectives:

- o Students will discuss the chemical makeup of living things.
- o Students will describe the different levels of organization in living things.
- o Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.

White Space Question:

Read “Families of Elements” lab packet to understand what you are doing in lab today.

Agenda:

- o Work with your lab group to complete Activity 17A “Families of Elements” lab;
- o Read and follow directions in lab packet

Tuesday 03/28

Objectives:

- Students will discuss the chemical makeup of living things.
- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.

White Space Question:

True or False? The nucleus of an atom is the same as the nucleus of a cell.

Agenda:

- Work on Activity 17 “The Chemistry of Life”:
 - Read pages 14 – 21; Answer questions 1 – 3 & 5 – 13
 - Do Lesson Review on page 23; questions 1 – 9
 - Complete Vocabulary
- **HW: Copy Activity 17A “Families of Elements” set up in to Science Notebook**

Monday 03/27

Objectives:

- Students will discuss the chemical makeup of living things.
- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.

White Space Question:

Describe the process of cellular respiration.

Agenda:

- Copy Activity 17 “The Chemistry of Life” set up in to Science Notebook
- Start Activity 17 work:
 - Read pages 14 – 21; Answer questions 1 – 3 & 5 – 13

Friday 03/24

Objectives:

- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.

White Space Question:

List two things you would like to learn about in Life Science for the remainder of the school year.

Agenda:

- TENS Program work (Euclid & Plato)
- “Cells” Unit Test make-ups (students absent 03/23)
- Watch BBC Planet Earth series segment “Seasonal Forest”

Thursday 03/23

Objectives:

- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.

White Space Question:

Study for “Cells” Unit Test

Agenda:

- Take “Cells” Unit Test; you may use Activity 16 & “Cells” Study Guide handouts
- When complete, turn in test packet with Activity 16 (tan handout) and “Cells” Unit Study Guide (pink handout)
- Read for remainder of class period

Wednesday 03/22

Objectives:

- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.

White Space Question:

What process allows plants, animals, and humans to obtain energy from food?

Agenda:

- Work on “Cells” Unit Study Guide WS (35 mins)
- Review “Cells” Unit Study Guide (15 mins)

HW: Study for “Cells” Unit Test tomorrow Thursday 03/23

Tuesday 03/21

Objectives:

- o Students will describe the different levels of organization in living things.
- o Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- o Students will explain the components of the scientific theory of cells.

White Space Question:

What are the four things all cells must do to maintain homeostasis?

Agenda:

- o Finish Activity 16 “A Closer Look” guided reading and Cells Unit Review (15 mins)
- o Discuss & review Activity 16 “A Closer Look” (40 mins)
- o Start “Cells” Unit Study Guide WS (Euclid)
- o “Cells” Unit Test this week Thursday 03/23

Monday 03/20

Objectives:

- o Students will describe the different levels of organization in living things.
- o Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- o Students will explain the components of the scientific theory of cells.

White Space Question:

What are several things that you do each morning to maintain homeostasis? (Think about what cells have to do to maintain homeostasis.)

Agenda:

- o Finish Activity 15 “Homeostasis and Cell Processes” discussion & review (15 mins)
- o Start Activity 16 “A Closer Look” guided reading and Cells Unit Review (40 mins)
- o “Cells” Unit Test this week Wednesday 03/22 or Thursday 03/23

Friday 03/17

Objectives:

- o Students will describe the different levels of organization in living things.
- o Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- o Students will explain the components of the scientific theory of cells.

White Space Question:

How does the structure of a specialized cell relate to its function? Think about the functions of a red blood cell and a nerve cell.

Agenda:

- o Discuss and Review Activity 15 “Homeostasis and Cell Processes” reading & questions
- o Check your work (make corrections if any)
- o Ask questions if you do not understand something
- o “Cells” Unit Test next Wednesday 03/22 or Thursday 03/23

Thursday 03/16 – ½ Day AM Only

Objectives:

- o Students will describe the different levels of organization in living things.
- o Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- o Students will explain the components of the scientific theory of cells.

White Space Question:

How does the structure of a specialized cell relate to its function? Think about the functions of a red blood cell and a nerve cell.

Agenda:

- o Complete work on Activity 15 “Homeostasis and Cell Processes” book reading & questions as you wait your turn on the microscope:
 - o Read pgs 50 – 59; Answer questions 1 -3 & 5 – 18
 - o Do Lesson Review on page 61; questions 1 - 9
 - o Complete Vocabulary
 - o Answer Analysis Questions #1 – 5; **HW if not completed in class**

Wednesday 03/15

Objectives:

- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.

White Space Question:

How does the structure of your pencil relate to its function?

Agenda:

○ AM classes:

- Continue work on Activity 14A “Looking for Signs of Micro-Life” lab
- Work on Activity 15 “Homeostasis and Cell Processes” book reading & questions as you wait your turn on the microscope: Read pgs 50 – 59; Answer questions 1 -3 & 5 – 18; Do Lesson Review

○ PM Classes:

- Complete work on Activity 15 “Homeostasis and Cell Processes”; **HW if not completed in class**

Tuesday 03/14

Objectives:

- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.

White Space Question:

How are cells, tissues, and organs organized into an organ system?

Agenda:

- **AM classes** turn in “Cell Structure and Function” Analogy Project
- Copy Activity 15 “Homeostasis and Cell Processes” set up in to Science Notebook
- Start work on Activity 15; read pages 50 – 59

Monday 03/13

Objectives:

- o Students will describe the different levels of organization in living things.
- o Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- o Students will explain the components of the scientific theory of cells.

White Space Question:

How are living things organized?

Agenda:

- o **PM classes** continue Activity 14A “Looking for Signs of Micro-Life” lab
 - o Read directions on how to prepare slide of aquarium culture & how to do microscopy drawings
 - o Draw micro-organisms in detail
 - o Read silently while you wait for your turn on the microscope
- o **AM classes** continue work on “Cell Structure and Function” Analogy Project; **Due Tuesday 03/14**

Friday 03/10 – ½ Day PM Only

Objectives:

- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.

White Space Question:

What structures make up organs?

Agenda:

- Shortened class periods for Humble Designs assembly
- Continue work on “Cell Structure and Function” Analogy Project;
Due Monday 03/13 for PM classes & Butcher Natives

Thursday 03/09

WCS District – No School due to inclement weather

Notice to AM classes:

- o You may continue work on “Cell Structure and Function” Analogy Project this weekend using your own poster paper
- o Or you can wait until Monday to get poster paper from Mrs. Duddles but you will have only one day to work on your cell city model
- o **Project is due Tuesday 03/14 for AM classes**

Project is due Monday 03/13 for PM classes & Butcher Natives

Wednesday 03/08

Objectives:

- o Students will describe the different levels of organization in living things.
- o Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- o Students will explain the components of the scientific theory of cells.

White Space Question:

What structures make up tissues?

Agenda:

- o Start Activity 14A “Looking for Signs of Micro-Life” lab
 - o Read directions on how to prepare slide of aquarium culture & how to do microscopy drawings
 - o Draw micro-organisms in detail
- o Continue work on “Cell Structure and Function Analogy Project as you await your turn on the microscope; **Due Monday 03/13**

Tuesday 03/07

Objectives:

- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.

White Space Question:

What is one major difference between a specialized cell and a unicellular organism?

Agenda:

- Introduce “Cell Structure and Function Analogy Project”; discuss & review project handout & rubric
- Start project; Due Monday 03/13

Monday 03/06

Objectives:

- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.

White Space Question:

How are multicellular organisms different from unicellular organisms?

Agenda:

- Discuss and Review Activity 14 “Levels of Cellular Organization”
- Write Conclusion for Activity 14

Friday 03/03

Objectives:

- o Students will describe the different levels of organization in living things.
- o Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- o Students will explain the components of the scientific theory of cells.

White Space Question:

Why are cells important?

Agenda:

- o Continue working on Activity 14 “Levels of Cellular Organization”:
 - o Do Lesson Review on page 49, questions 1 – 8
 - o Complete Vocabulary
 - o Answer Analysis Questions 1 – 5
 - o HW if not completed in class

Thursday 03/02

Objectives:

- Students will describe the different levels of organization in living things.
- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.

White Space Question:

In Activity 13A: A Cell Model, what evidence do you have that the cell membrane controls what can enter or leave a cell?

Agenda:

- Work on Activity 14 “Levels of Cellular Organization”:
 - Read pages 38 – 47 in *Cells and Heredity* book
 - Answer questions 1 – 3 and 5 – 19; do Lesson Review on page 49, questions 1 – 8.

Wednesday 03/01

Objectives:

- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.

White Space Question:

Cell membranes are selectively permeable. What does this mean?

Agenda:

- Finish Activity 13A Lab: A Cell Model
 - Answer Analysis Questions #1 – 5 (15 mins)
 - Discuss and review Analysis Questions (15 mins)
 - Write Conclusion; turn in lab handout for grading (25 mins)

Tuesday 02/28

Objectives:

- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.

White Space Question:

Name the cell part that controls what can enter or leave the cell.

Agenda:

- Start Activity 13A Lab: A Cell Model
 - Read and follow lab packet carefully to understand what you will be doing today in lab
 - Follow directions in lab packet & listen for teacher directions

Monday 02/27

Objectives:

- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.

White Space Question:

What organelle is found in animal cells but not plant cells?

Agenda:

- Copy Activity 14 “Levels of Cellular Organization” set up in to Science Notebook
- Preview Activity 13A Lab: A Cell Model; read lab packet to prepare for tomorrow’s lab activity

Monday 02/20 – Friday 02/24

WCS District – No School

Have a safe Mid-Winter Break!

Friday 02/17 – ½ Day AM Only

Objectives:

- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.

White Space Question:

What parts are found in plant cells but not animal cells?

Agenda:

- Watch “Great Plains” segment from BBC *Planet Earth* series
- *Have a safe mid-Winter Break!*

Thursday 02/16

Objectives:

- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.

White Space Question:

Why can't animal cells make food?

Agenda:

- Continue work on Cell City Analogy WS (15 mins)
- Discuss and review Cell City Analogy WS; turn in for a grade

Wednesday 02/15

Objectives:

- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.

White Space Question:

What are two functions of the cell membrane?

Agenda:

- TENS Program (Euclid & Plato groups 9:00 am – 2:00 pm)
- Work on Cell City Analogy WS; read and follow directions to complete WS
- Read for remainder of class period if done with assigned work

Tuesday 02/14

Objectives:

- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.

White Space Question:

What are some of the characteristics of eukaryotic cells?

Agenda:

- Discuss and Review Activity 13 “Cell Structure and Function” book reading & questions and Vocabulary WS

Monday 02/13

Objectives:

- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.

White Space Question:

Write the chemical equation for cellular respiration.

Agenda:

- Finish Activity 12B Lab: “Cells Alive!” lab activity (15 mins)
- Discuss and Review Activity 12B Lab

Friday 02/10

Objectives:

- o Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- o Students will explain the components of the scientific theory of cells.
- o Students will explain how cells capture & release energy.

White Space Question:

Why are most cells small?

Agenda:

- o Work Activity 12B Lab: “Cells Alive!” lab activity
- o Listen & follow teacher directions to complete the lab
- o Clean up & return lab materials to lab tray

Thursday 02/09

Objectives:

- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.

White Space Question:

What are the two basic types of cells?

Agenda:

- Copy Activity 12B Lab: Cells Alive! set up in to Science Notebook
- Read Activity 12B lab packet so that you understand what you will be doing in lab on Friday
- Finish all work for Activity 13 “Cell Structure and Function”; **HW if not completed in class**

Wednesday 02/08

Objectives:

- Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.

White Space Question:

Name the four parts that all cells have in common.

Agenda:

- Continue work on Activity 13 “Cell Structure and Function”:
 - Read pages 24 – 33; Answer questions 1, 2, 3 & 5 – 19
 - Do Lesson Review on page 35; questions 1 – 11
 - Complete Activity 13 Vocabulary handout
 - Answer Analysis Questions 1 – 5; Write Conclusion

Tuesday 02/07

Objectives:

- o Students will see that cells are alive and the functions of living organisms, including respiration, are performed by cells.
- o Students will explain the components of the scientific theory of cells.
- o Students will explain how cells capture & release energy.

White Space Question:

What structures are present only in the parts of plants that collect sunlight, and what color are those parts?

Agenda:

- o Finish discussion & review Activity 12A lab
- o Copy Activity 13 “Cell Structure and Function” in to Science Notebook
- o Start work on Activity 13:
 - o Read pages 24 – 33; Answer questions 1, 2, 3 & 5 – 19

Monday 02/06

Objectives:

- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.
- Students will understand the flow of energy & the cycles of matter in ecosystems.

White Space Question:

Which cells have a nucleus? Eukaryotic or prokaryotic cells?

Agenda:

- Finish Activity 12A Lab: “The Cells of Producers” lab Analysis Questions 1 – 6; do Vocabulary and write Conclusion (25 mins)
- Discuss and Review Activity 12A Lab
- Q3 Seat Assignment

Friday 02/03

Objectives:

- o Students will explain the components of the scientific theory of cells.
- o Students will explain how cells capture & release energy.
- o Students will understand the flow of energy & the cycles of matter in ecosystems.

White Space Question:

List the three basic characteristics of all cells and organisms.

Agenda:

- o Work on Activity 12A Lab: “The Cells of Producers” lab
- o Read & follow directions in lab packet
- o Prepare wet mount slides of celery stalk, Elodea, & onion slice
- o Observe slides under low, medium, & high power objectives
- o Draw images seen under microscope in data sheet
- o Answer Analysis Questions 1- 6 from lab packet in notebook
- o Clean up microscope lab stations

Thursday 02/02

Objectives:

- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.
- Students will understand the flow of energy & the cycles of matter in ecosystems.

White Space Question:

What are some basic life processes of all organisms?

Agenda:

- Finish discussion and review Activity 12 “The Characteristics of Cells” work
- Copy Activity 12A Lab: “The Cells of Producers” set up in to Science Notebook
- Preview and read “The Cells of Producers” lab packet for Friday

Wednesday 02/01

Objectives:

- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.
- Students will understand the flow of energy & the cycles of matter in ecosystems.

White Space Question:

How do you find the total magnification of an object?

Agenda:

- Set up Science Fair Project display boards in Room 103 for exhibit
- Discuss and Review Activity 12 “The Characteristics of Cells” work
- Copy Activity 12A Lab: “The Cells of Producers” set up in to Science Notebook if time

Tuesday 01/31

Objectives:

- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.
- Students will understand the flow of energy & the cycles of matter in ecosystems.

White Space Question:

Do plants undergo cellular respiration?

Agenda:

- Finish Activity 12 “The Characteristics of Cells” work:
 - Read pages 4 – 11 in *Cells and Heredity* book; Answer questions 1, 2, 3, and 5 – 13
 - Complete Vocabulary
 - Do Lesson Review on page 13, questions 1 – 9
 - Answer Analysis Questions #1 – 4; Write Conclusion

Monday 01/30

Objectives:

- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.
- Students will understand the flow of energy & the cycles of matter in ecosystems.

White Space Question:

What are the starting materials and products of cellular respiration?

Agenda:

- Science Notebook check today
- Continue work on Activity 12 “The Characteristics of Cells”:
 - Read pages 4 – 11 in *Cells and Heredity* book; Answer questions 1, 2, 3, and 5 – 13
 - Complete Vocabulary
 - Do Lesson Review on page 13, questions 1 - 9

Friday 01/27

Objectives:

- Students will explain the components of the scientific theory of cells.
- Students will explain how cells capture & release energy.
- Students will understand the flow of energy & the cycles of matter in ecosystems.

White Space Question:

What are the starting materials and products of photosynthesis?

Agenda:

- Copy Activity 12 “The Characteristics of Cells” set up in to Science Notebook
- Start work on Activity 12:
 - Read pages 4 – 11 in *Cells and Heredity* book; Answer questions 1, 2, 3, and 5 – 13; Complete Vocabulary

Thursday 01/26

Objectives:

- Students will explain how cells capture & release energy.
- Students will understand the flow of energy & the cycles of matter in ecosystems.
- Students will study how abiotic & biotic factors affect the growth & development of living organisms.

White Space Question:

Could cellular respiration happen without photosynthesis?

Agenda:

- Finish discussion and review of Activity 11 “Photosynthesis and Cellular Respiration” (Euclid)
- Start Activity 11B “Introduction to Microscope” lab; practice using microscopes and preparing slides

Wednesday 01/25 - Euclid

Objectives:

- o Students will explain how cells capture & release energy.
- o Students will understand the flow of energy & the cycles of matter in ecosystems.
- o Students will study how abiotic & biotic factors affect the growth & development of living organisms.

White Space Question:

Write the word equation for photosynthesis.

Agenda:

- o Finish Activity 11A “A Producer’s Source of Energy”
- o Answer Analysis Questions #1 & 2; write answers on back of Recording Results lab data sheet. Turn in for grading
- o Discuss and review Activity 11 “Photosynthesis and Cellular Respiration”

HW: Complete fill-in notes for Activity 11B “Introduction to Microscope” note sheet

Wednesday 01/25

Objectives:

- Students will explain how cells capture & release energy.
- Students will understand the flow of energy & the cycles of matter in ecosystems.
- Students will study how abiotic & biotic factors affect the growth & development of living organisms.

White Space Question:

Write the word equation for cellular respiration.

Agenda:

- Finish discussion and review of Activity 11 “Photosynthesis and Cellular Respiration”
- Complete fill-in notes for Activity 11B “Introduction to Microscope” note sheet

Tuesday 01/24 – AM Classes

Objectives:

- o Students will explain how cells capture & release energy.
- o Students will understand the flow of energy & the cycles of matter in ecosystems.
- o Students will study how abiotic & biotic factors affect the growth & development of living organisms.

White Space Question:

Write the word equation for photosynthesis.

Agenda:

- o Finish Activity 11A “A Producer’s Source of Energy”
- o Answer Analysis Questions #1 & 2; write answers on back of Recording Results lab data sheet. Turn in for grading
- o Discuss and review Activity 11 “Photosynthesis and Cellular Respiration”

HW: Copy Activity 11B “Introduction to Microscope” in to Science Notebook

Tuesday 01/24 – Euclid Section

Objectives:

- o Students will explain how cells capture & release energy.
- o Students will understand the flow of energy & the cycles of matter in ecosystems.
- o Students will study how abiotic & biotic factors affect the growth & development of living organisms.

Agenda:

- o TENS Program work today

HW: Copy Activity 11B “Introduction to Microscope” in to Science Notebook

Tuesday 01/24 – PM Classes

Objectives:

- o Students will explain how cells capture & release energy.
- o Students will understand the flow of energy & the cycles of matter in ecosystems.
- o Students will study how abiotic & biotic factors affect the growth & development of living organisms.

White Space Question:

Write the word equation for photosynthesis.

Agenda:

- o Discuss and review Activity 11 “Photosynthesis and Cellular Respiration” book work

Monday 01/23

Objectives:

- o Students will explain how cells capture & release energy.
- o Students will understand the flow of energy & the cycles of matter in ecosystems.
- o Students will study how abiotic & biotic factors affect the growth & development of living organisms.

White Space Question:

Why do living things need energy at all times?

Agenda:

- o **AM Classes:** Start Activity 11A “A Producer’s Source of Energy”; Read & follow directions in lab packet and watch teacher demo to complete lab activity
- o **PM Classes:**
 - o Finish Activity 11 “Photosynthesis and Cellular Respiration” work (25 mins)
 - o Copy Activity 11B “Introduction to Microscope” in to Science Notebook

Friday 01/20 – 1/2 Day PM Only

Objectives:

- Students will explain how cells capture & release energy.
- Students will understand the flow of energy & the cycles of matter in ecosystems.
- Students will study how abiotic & biotic factors affect the growth & development of living organisms.

White Space Question:

Write the word equation for photosynthesis.

Agenda:

- Finish Activity 11A “A Producer’s Source of Energy” lab activity Part 1 & 2:
 - Read & follow directions in lab packet
 - Answer Analysis Questions #1 & 2; write answers on back of Recording Results lab data sheet. Turn in for grading

Thursday 01/19

Objectives:

- o Students will explain how cells capture & release energy.
- o Students will understand the flow of energy & the cycles of matter in ecosystems.
- o Students will study how abiotic & biotic factors affect the growth & development of living organisms.

White Space Question:

How are producers different from consumers?

Agenda:

- o **SF Project Display Board due today**
- o **AM classes:** Copy Activity 11A “A Producer’s Source of Energy” in to Science Notebook and Continue work on Activity 11 “Photosynthesis and Cellular Respiration”
- o **PM classes:** Start Activity 11A “A Producer’s Source of Energy”; Read & follow directions in lab packet and watch teacher demo to complete lab activity

Wednesday 01/18

Objectives:

- o Students will explain how cells capture & release energy.
- o Students will understand the flow of energy & the cycles of matter in ecosystems.
- o Students will study how abiotic & biotic factors affect the growth & development of living organisms.

White Space Question:

What do you think a plant uses energy for?

What are the starting materials for photosynthesis?

Agenda:

- o You have 25 mins to review SF Project Display Board and Logbook with your partner: update logbook, put finishing touches on display board, etc. Both due at end of class today
- o Continue work on Activity 11 “Photosynthesis and Cellular Respiration”
- o PM classes only: Copy Activity 11A “A Producer’s Source of Energy” in to Science Notebook

Tuesday 01/17

**WCS District – No School
Snow Day**

Monday 01/16

**WCS District – No School
MLK Day**

Friday 01/13

Objectives:

- o Students will explain how cells capture & release energy.
- o Students will understand the flow of energy & the cycles of matter in ecosystems.
- o Students will study how abiotic & biotic factors affect the growth & development of living organisms.

White Space Question:

What are the starting materials for photosynthesis?

Agenda:

- o Finish work on SF Project:
 - o Update Logbook, Conduct additional Background/Online research, Do Data Analysis, Edit Abstract, Write Conclusion, Work on Display Board components & putting it together
 - o Whatever you do not finish by today including Display Board must be completed by **Wednesday 01/18**

Thursday 01/12

Objectives:

- o Students will explain how cells capture and release energy.
- o Students will understand the flow of energy and the cycles of matter in ecosystems.
- o Students will study how abiotic & biotic factors affect the growth and development of living organisms.

White Space Question:

What do you think a plant uses energy for?

Agenda:

- o Continue work on SF Project:
 - o Update Logbook, Conduct additional Background/Online research, Do Data Analysis, Edit Abstract, Write Conclusion, Work on Display Board components & putting it together
 - o Display Boards must be completed beginning of class

Wednesday 01/18

Wednesday 01/11

Objectives:

- o Students will explain how cells capture and release energy.
- o Students will understand the flow of energy and the cycles of matter in ecosystems.
- o Students will study how abiotic & biotic factors affect the growth and development of living organisms.

White Space Question:

What is a source of energy for plants?

Agenda:

- o Review corrected Abstract for SF Project & rewrite/edit if needed
- o Continue work on SF Project:
 - o Update Logbook, Conduct additional Background research, Do Data Analysis and Conclusion, Work on Display Board components & putting it together
 - o Display Boards must be completed beginning of class **Wednesday 01/18**

Tuesday 01/10

Objectives:

- o Students will explain how cells capture and release energy.
- o Students will understand the flow of energy and the cycles of matter in ecosystems.
- o Students will study how abiotic & biotic factors affect the growth and development of living organisms.

White Space Question:

How do animals get food?

Agenda:

- o Review corrected Abstract and rewrite/edit if necessary
- o Continue work on SF Project:
 - o Update Logbook, Conduct additional Background research, Do Data Analysis and Conclusion, Work on Display Board components & putting it together

Monday 01/09

Objectives:

- o Students will explain how cells capture and release energy.
- o Students will understand the flow of energy and the cycles of matter in ecosystems.
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White Space Question:

How do plants get food?

Agenda:

- o Copy Activity 11 “Photosynthesis and Cellular Respiration” set up in to Science notebook
- o Work on Activity 11 assigned book reading and questions:
 - o Read pages 66 – 75 in *Cells and Heredity* book
 - o Do questions 1, 2, and 5 - 15