



**Life Science 7**  
**Mrs. Duddles**

**Q1 -Ecosystems**

# Monday 11/02

## Objectives:

- o Students will be able to explain the flow of energy and the cycles of matter in ecosystems
- o Students will conduct four types of soil testing & will identify components of soil

## White Space Question:

How are humans involved in the carbon cycle?

## Agenda:

- o Discuss & review Activity 5 “Energy and Matter in Ecosystems” book reading & questions (7C)
- o Complete Cornell Notes for Soil lecture (7D & 7E)



# Friday 10/30 – ½ Day PM Classes Only

## Objectives:

- Students will be able to explain the flow of energy and the cycles of matter in ecosystems
- Students will analyze the parts of an environment
- Students will identify the abiotic & biotic factors of an ecosystem

## White Space Question:

**Are producers making new matter and energy? Explain.**

## Agenda:

- Finish Activity 5 “Energy and Matter in Ecosystems” discussion and review
- Watch “Planet Earth: Deserts” episode (if time)

# Thursday 10/29

## Objectives:

- o Students will be able to explain the flow of energy and the cycles of matter in ecosystems
- o Students will analyze the parts of an environment
- o Students will identify the abiotic & biotic factors of an ecosystem

## White Space Question:

In an energy pyramid, at what level is there the most energy?

## Agenda:

- o Discuss and Review Activity 5 “Energy and Matter in Ecosystems” book reading & questions
- o Turn in (except for MSVPA) “The Myth of the Predator” news article summary for grading if you did not do so Wednesday



## Wednesday 10/28

### Objectives:

- Students will be able to explain the flow of energy and the cycles of matter in ecosystems
- Students will analyze the parts of an environment
- Students will identify the abiotic & biotic factors of an ecosystem

### Agenda:

- Finish Activity 5 “Energy and Matter in Ecosystems” book reading & questions (p 88-97; #5-17)
  - Do Activity 5 Vocabulary; Write Conclusion
- Read “The Myth of the Predator” news article; write a summary of article

## Tuesday 10/27

### Objectives:

- o Students will be able to explain the flow of energy and the cycles of matter in ecosystems
- o Students will analyze the parts of an environment
- o Students will identify the abiotic & biotic factors of an ecosystem

### Agenda:

- o Shorten class period for HOUSE mtg & speaker (30 mins)
- o Watch Anti-Bullying videos to prepare for Officer Graus presentation on bullying and cyberbullying
- o Sign Butcher Anti-Bullying Pledge

# Links for Anti-Bullying Videos

- o [Bullying Information Video](#)
- o [Bully Virus Video](#)
- o [Anti Bully Heroes](#)



# Monday 10/26 – 7D & 7E

## Objectives:

- o Students will be able to explain the flow of energy and the cycles of matter in ecosystems
- o Students will analyze the parts of an environment
- o Students will identify the abiotic & biotic factors of an ecosystem

## Agenda:

- o Science Bizarre House visit (15 mins)
- o Finish Activity 5 “Energy and Matter in Ecosystems” book reading & questions (p 88-97; #5-17)
- o Do Activity 5 Vocabulary; Write Conclusion
- o Read “The Myth of the Predator” news article; write a summary of article when finished with all work



## **Monday 10/26 – 7C**

### **Objectives:**

- o Students will be able to explain the flow of energy and the cycles of matter in ecosystems**
- o Students will analyze the parts of an environment**
- o Students will identify the abiotic & biotic factors of an ecosystem**

### **Agenda:**

- o Finish Activity 5 “Energy and Matter in Ecosystems” work; write Conclusion**
- o Read “The Myth of the Predator” news article; write a summary of article**

## **Friday 10/23 – AM class only (7C)**

### **Objectives:**

- o Students will be able to explain the flow of energy and the cycles of matter in ecosystems**
- o Students will analyze the parts of an environment**
- o Students will identify the abiotic & biotic factors of an ecosystem**

### **Agenda:**

- o Mrs. Duddles at Cranbrook with PM students**
- o Finish Activity 5 “Energy and Matter in Ecosystems” book reading & questions (p 88-97; #5-17)**
- o Do Activity 5 Vocabulary**
- o Read silently for remainder of hour**



## Thursday 10/22

### Objectives:

- o Students will be able to explain the flow of energy and the cycles of matter in ecosystems
- o Students will analyze the parts of an environment
- o Students will identify the abiotic & biotic factors of an ecosystem

### Agenda:

- o Read “What is soil?” handout
- o Collect soil samples from school grounds for MI native species habitat
- o Continue work on Activity 5 “Energy and Matter in Ecosystems”

# Wednesday 10/21

## Objectives:

- o Students will analyze the parts of an environment
- o Students will identify the abiotic & biotic factors of an ecosystem
- o Students will be able to describe the types & variety of organisms that can be supported by the abiotic factors in an ecosystem

## Agenda:

- o Turn in Biomes Poster Project today
  - o Staple a rubric with your name(s) to the poster
- o Set Up Activity 5 “Energy and Matter in Ecosystems” in Science Notebook
- o Start Activity 5 book reading & questions (p 88-97; #5-17)



# Tuesday 10/20 – House Challenge Day

## Objectives:

- o Students will analyze the parts of an environment
- o Students will identify the abiotic & biotic factors of an ecosystem
- o Students will be able to describe the types & variety of organisms that can be supported by the abiotic factors in an ecosystem

## Agenda:

- o Continue work on Biomes Poster Project
  - o Create required components for poster
  - o Assemble poster
  - o Due at beginning of class on Wednesday 10/21
  - o **This assignment is an assessment grade**

# Monday 10/19

## Objectives:

- o Students will analyze the parts of an environment
- o Students will identify the abiotic & biotic factors of an ecosystem
- o Students will be able to describe the types & variety of organisms that can be supported by the abiotic factors in an ecosystem

## Agenda:

- o Continue work on Biomes Poster Project
  - o Create required components for poster
  - o Assemble poster
  - o Due at beginning of class on Wednesday 10/21
  - o **This assignment is an assessment grade**
- o Activity 4 “Abiotic and Biotic Factors” Science Notebook check



## Friday 10/16 – ½ Day AM Classes Only

### Objectives:

- o Students will analyze the parts of an environment
- o Students will identify the abiotic & biotic factors of an ecosystem
- o Students will be able to describe the types & variety of organisms that can be supported by the abiotic factors in an ecosystem

### Agenda:

- o Continue work on Biomes Poster Project
  - o Conduct online research of assigned biomes
  - o Create required components for poster
  - o Due at beginning of class on Wednesday 10/21
  - o **This assignment is an assessment grade**

# Thursday 10/15

## Objectives:

- o Students will analyze the parts of an environment
- o Students will identify the abiotic & biotic factors of an ecosystem
- o Students will be able to describe the types & variety of organisms that can be supported by the abiotic factors in an ecosystem

## Agenda:

- o Continue work on Biomes Poster Project
  - o Conduct online research of assigned biomes
  - o Create required components for poster
  - o Due at beginning of class on Wednesday 10/21
  - o **This assignment is an assessment grade**



# Wednesday 10/14

## Objectives:

- o Students will analyze the parts of an environment
- o Students will identify the abiotic & biotic factors of an ecosystem
- o Students will be able to describe the types & variety of organisms that can be supported by the abiotic factors in an ecosystem

## Agenda:

- o Review Biomes Poster Project handout
- o Start work on Biomes Poster Project
  - o Due at beginning of class Wednesday 10/21
  - o **This assignment is an assessment grade**

# Tuesday 10/13

## Objectives:

- o Students will analyze the parts of an environment
- o Students will be able to relate the roles of organisms to the transfer of energy in food chains & food webs

## Agenda:

- o Discuss and review Activity 4 Abiotic and Biotic Factors lab activity
- o Review Biomes Poster Project handout



# Monday 10/12

## Objectives:

- Students will analyze the parts of an environment
- Students will be able to relate the roles of organisms to the transfer of energy in food chains & food webs

## Agenda:

- Start Activity 4 Abiotic and Biotic Factors lab activity

# Friday 10/09

## Objectives:

- o Students will analyze the parts of an environment
- o Students will be able to relate the roles of organisms to the transfer of energy in food chains & food webs

## Agenda:

- o Finish Energy Transfer in an ecosystem group discussion poster
  - o Poster should discuss roles of producers, consumers, & decomposers
  - o Show energy transfer in an ecosystem
  - o Present group poster to class
- o Discuss Activity 3 Analysis Questions



# Thursday 10/08

## Objectives:

- o Students will analyze the parts of an environment
- o Students will be able to relate the roles of organisms to the transfer of energy in food chains & food webs

## Agenda:

- o Finish discussion & review for Activity 3  
“Introduction to Ecology /Roles in Energy Transfer”
- o Work on Energy Transfer in an ecosystem group discussion poster
  - o Poster should discuss roles of producers, consumers, & decomposers
  - o Show energy transfer in an ecosystem

# Wednesday 10/07

## Objectives:

- o Students will analyze the parts of an environment
- o Students will be able to relate the roles of organisms to the transfer of energy in food chains & food webs

## Agenda:

- o Activity 3 Science Notebook check
- o Discuss & Review Activity 3 “Introduction to Ecology /Roles in Energy Transfer” reading & questions
- o Set up Activity 4 “Abiotic and Biotic Factors” in Science Notebook if time



# Tuesday 10/06

## Objectives:

- o Students will analyze the parts of an environment
- o Students will be able to relate the roles of organisms to the transfer of energy in food chains & food webs

## Agenda:

- o Shortened class period for special speaker
- o Finish Activity 3 “Introduction to Ecology /Roles in Energy Transfer” reading & questions
  - o Read assigned pages & answer assigned questions
  - o Create definitions for Vocabulary words; answer Analysis Questions, write Conclusion

**HW:** Finish Activity 3 reading, questions, and vocabulary

# Monday 10/05

## Objectives:

- o Students will analyze the parts of an environment
- o Students will be able to relate the roles of organisms to the transfer of energy in food chains & food webs

## Agenda:

- o Finish Activity 3 “Introduction to Ecology /Roles in Energy Transfer” reading & questions
  - o Read assigned pages & answer assigned questions
  - o Create definitions for Vocabulary words; answer Analysis Questions, write Conclusion



# Friday 10/02

## Objectives:

- o Students will analyze the parts of an environment
- o Students will be able to relate the roles of organisms to the transfer of energy in food chains & food webs

## Agenda:

- o Continue working on Activity 3 “Introduction to Ecology /Roles in Energy Transfer” reading & questions
  - o Read assigned pages & answer assigned questions
  - o Create definitions for Vocabulary words; answer Analysis Questions, write Conclusion

# Thursday 10/01

## Objectives:

- o Students will analyze the parts of an environment
- o Students will be able to relate the roles of organisms to the transfer of energy in food chains & food webs

## Agenda:

- o Copy Activity 3 “Introduction to Ecology /Roles in Energy Transfer” set up in to Science Notebook
- o Start Activity 3 reading & answer questions



# Wednesday 09/30

## Objectives:

- o Students will explore the steps of the Rock Cycle using simple, familiar materials.
- o Students will describe their observations & identify the steps of the Rock Cycle.

## Agenda:

- o Review notes and other resources for Rock Cycle quiz (15 mins)
- o Take quiz on Rock Cycle
- o Read Science World for rest of class period

## Tuesday 09/29

### Objectives:

- o Students will explore the steps of the Rock Cycle using simple, familiar materials.
- o Students will describe their observations & identify the steps of the Rock Cycle.

### Agenda:

- o Review Crayon Rock Cycle Lab
- o Do lab group review activities; follow directions “Group Review Session for Rock Cycle” document
- o Have Cornell notes on MI Rock Cycle complete by Wednesday for grading
- o Quiz on Rock Cycle Wednesday 09/30



# Monday 09/28

## Objectives:

- o Students will explore the steps of the Rock Cycle using simple, familiar materials.
- o Students will describe their observations & identify the steps of the Rock Cycle.

## Agenda:

- o Start Crayon Rock Cycle Lab
- o Have Cornell notes on MI Rock Cycle complete by Wednesday for grading
- o Quiz on Rock Cycle Wednesday 09/30

# Friday 09/25 – ½ Day PM Only

## Objectives:

- o Students will understand the Rock Cycle and how to classify types of rocks
- o Students will be able to take pertinent notes from lectures, books, and activities using the Cornell Note-Taking System

## Agenda:

- o Continue MI Rock Cycle lecture notes using Cornell Note-taking System

## HW:

Review MI Rock Cycle PowerPoint file on Mrs. Duddles' webpage and take Cornell Notes



# Thursday 09/24

## Objectives:

- o Students will understand the Rock Cycle and how to classify types of rocks
- o Students will be able to take pertinent notes from lectures, books, and activities using the Cornell Note-Taking System

## Agenda:

- o Finish Rock Collection & Rock Cycle Group Presentations (7C & 7D)
- o Review Cornell Note-taking System
- o MI Rock Cycle lecture notes

## HW:

Review MI Rock Cycle PowerPoint file on Mrs. Duddles' webpage and take Cornell Notes

**Wednesday 09/23**

**Objectives:**

- **Students will understand the Rock Cycle and how to classify types of rocks**

**Agenda:**

- **Finish Rock Collection & Rock Cycle Group Presentations**



**Tuesday 09/22**

**Objectives:**

- **Students will understand the Rock Cycle and how to classify types of rocks**

**Agenda:**

- **Rehearse Rock Collection & Rock Cycle group presentation (15 mins)**
- **Start Rock Collection & Rock Cycle Presentations**

# Monday 09/21

## Objectives:

- o Students will understand the Rock Cycle and how to classify types of rocks

## Agenda:

- o Attend 8<sup>th</sup> Grade Science debate on moon landings
- o Rehearse Rock Collection & Rock Cycle group presentation if time
- o Be ready for Rock Collection & Rock Cycle Presentations; we start tomorrow, Tuesday 09/22



# Friday 09/18

## Objectives:

- o Students will understand the Rock Cycle and how to classify types of rocks

## Agenda:

- o Collect missing (MS)2TC forms (7E) & syllabus signature page
- o Continue work on Rock Collection and Rock Cycle project:
  - o Classify rocks
  - o Identify rocks using field guides & resources
  - o Create rock display
  - o Work on group presentation
  - o Rehearse group presentation
- o Today is last class work day for this project
- o Presentations start on Tuesday 09/22

# Thursday 09/17

## Objectives:

- o Students will understand the Rock Cycle and how to classify types of rocks

## Agenda:

- o Collect missing (MS)2TC forms (7E) & syllabus signature page
- o Continue work on Rock Collection and Rock Cycle project:
  - o Classify rocks
  - o Identify rocks using field guides & resources
  - o Create rock display
  - o Work on group presentation
  - o Rehearse group presentation
- o Friday is last class work day for this project
- o Presentations start on Tuesday 09/22



# Wednesday 09/16

## Objectives:

- o Students will understand the Rock Cycle and how to classify types of rocks

## Agenda:

- o Collect missing (MS)2TC forms (7E) & syllabus signature page
- o Continue work on Rock Collection and Rock Cycle project:
  - o Classify rocks
  - o Identify rocks using field guides & resources
  - o Create rock display
  - o Work on group presentation

# Tuesday 09/15

## Objectives:

- o Students will understand the Rock Cycle and how to classify types of rocks

## Agenda:

- o Collect missing (MS)2TC forms (7E) & syllabus signature page
- o Review Rock Collection & Rock Cycle Project assignment & rubric
- o Continue project:
  - o Choose rocks from individual collections to make final group collection
  - o Classify rocks
  - o Identify rocks using field guides & resources



# Monday 09/14

## Objectives:

- o Students will understand the Rock Cycle and how to classify types of rocks

## Agenda:

- o Collect missing (MS)2TC forms (7E) & syllabus signature page
- o Review Rock Collection & Rock Cycle Project assignment & rubric
- o Start project:
  - o Choose rocks from individual collections to make final group collection
  - o Classify rocks

# Friday 09/11

## Objectives:

- o Students will review the process for keeping a science lab notebook
- o Students will review the importance of reading directions

## Agenda:

- o Collect missing (MS)2TC forms including ECD (7E) & syllabus signature page
- o Discuss Conclusion Writing Rubric
- o Video clips & Reading Directions activity
- o Discuss summer work packet Rock Collection & preview Rock Collection & Rock Cycle Project

## HW:

Have Rock Collection paper with you on Monday 09/14

Bring in all missing (MS)2TC forms including syllabus & ECD by Monday (last day)



# Thursday 09/10

## Objectives:

- o Students will review CHAMPS classroom behavior
- o Students will review the process for keeping a science lab notebook

## Agenda:

- o Collect missing (MS)2TC forms & ECD forms (7E)
- o Distribute science lab notebooks & copy standard lab set up

## HW:

- o Review course syllabus & ECD with parents/guardians & turn in signature pages to Mrs. Duddles by Friday

# Wednesday 09/09

- o Welcome Assembly/ Orientation with Dr. Neuhoff in cafeteria
- o Shorten Class Schedule Run-through
- o Review CHAMPS classroom behavior practices
- o Review course syllabus
- o Collect (MS)2TC forms (Section 7E)
- o Distribute ECD form (7E)
- o Temporary seating chart

## **HW:**

Review course syllabus & ECD with parents & turn in signature pages to Mrs. Duddles by Friday



Tuesday 09/08

o 1/2 Day – Home School Only