Week of April 6-10, 2020
High School Science
William Sewell

Communication: email: william.sewell@oakland5.org or Google Hangout-Meet

Office hours: Monday and Wednesday: 12:00 to 2:00 p.m., Tuesday and Thursday: 12:00 to 1:00 p.m.

Due Date: All assignments are due 4/13/2020 either by sending a picture of it and turning it into Google Classroom or turning it into boxes located in the Lake Crest foyer.

Assignments: All assignments will be in "Google Classroom" and a paper copy will be provide from the Oakland main office. This week will provide time for everyone to "catch up" on their assignments and provide opportunities for others to move forward. A lot of these assignments are duplicates from what was assigned on 3/16/2020, but a few new. I will have office hours as listed above which we can review the assignments given, and I will help you as much as needed. However, the expectation is the same as it was before. I expect you to have made a serious effort to complete the assignment, before asking for help. You will not learn anything with me just giving you the answers.

Class	Choice 1	Choice 2	Choice 3 (Enrichment)
Earth Science	Chapter 25: Worksheets, p.35-36, and p.37-38.	Chapter 25 Test, p.45-47	Chapter 26, worksheets, p.59-60, 61-62, p.63-64.
Physical Science	Chapter 13: Worksheet- p.19-20, 29-30	Chapter 13: Worksheet- p.31-32	Chapter 13: Review Worksheet, p.35-36, and the Chapter Test, p.37-38
Chemistry	Unit 4: Worksheet 3 and 4	Unit 4 Test (To be completed with notes and other resources)	Unit 5: Relative Mass Lab video and write-up
Pre-calculus	Complete Composite Function WS	Complete Composite Function Quiz 1 and Quiz 2	Complete Composite Functions Unit Test on Khan or paper version. If you are finished with this you can start working through the unit on trigonometry.

Earth Science

Freshmen

Due Apr 13

Assignment Week of 4/6/2020

10 points

William Sewell 12:45 PM (Edited 12:51 PM)

You are to choose from the following 3.

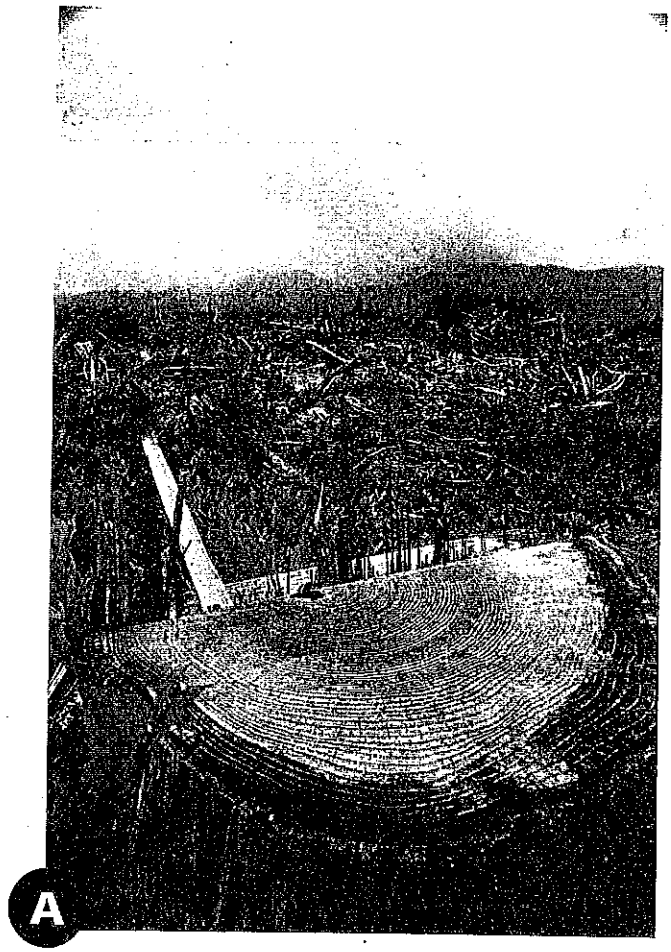
Choice #1: Chapter 25: Worksheets, p.35-36, and p.37-38.
Choice #2: Chapter 25 Test, p.45-47 You can you use your note, worksheets, or book to help you complete this test. However, you are expected to complete on your own.
Choice #3: Chapter 26, worksheets, p.59-60, 61-62, p.63-64.

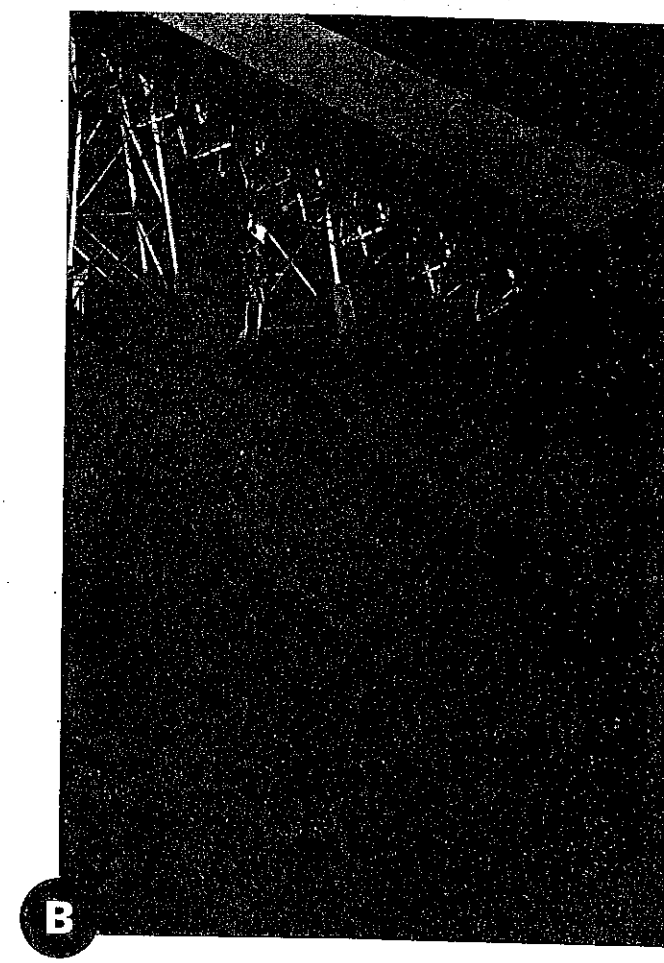
EARTH SCIENCE Choice #1 Sewell/Apr. 6-10/

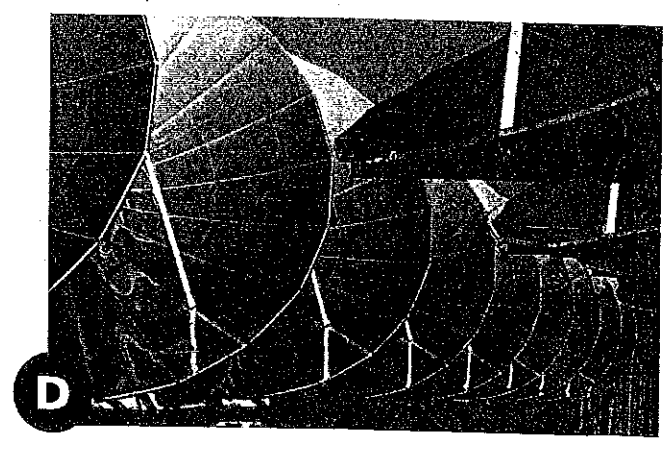
MASTER 77 TEACHING TRANSPARENCY

Use with Chapter 25
Section 25.2

Energy Resources







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EARTH #1 Sewell / Apr. 6-10

Name Class Date

WORKSHEET 77 TEACHING TRANSPARENCY

Use with Chapter 25
Section 25.2

Energy Resources

1. Which of the energy resources represented by the photos are renewable?

2. Which of the energy resources represented by the photos are nonrenewable? Explain your answer.

3. Describe the advantages and disadvantages of using the power source shown in photo C.

4. Describe the advantages and disadvantages of using the power source shown in photo D.

5. Describe the advantages and disadvantages of using the power source shown in photo A.

6. Would using multiple energy resources work better than depending on just one resource? Explain your answer.

7. Which of the energy resources shown would be appropriate to use in your community? Explain your answer.

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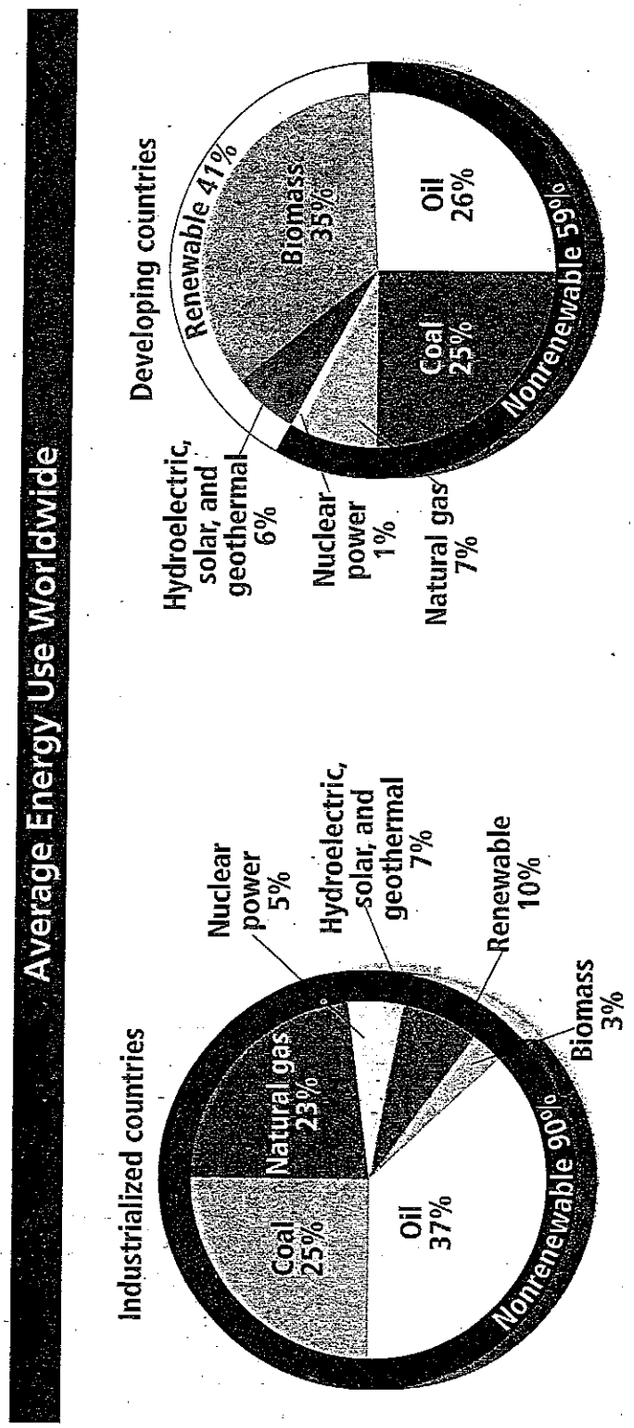
EARTH #1

Sewell/ Apr. 6-10

Use with Chapter 25
Section 25.3

Global Energy Use



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EARTH #1 Sewell

Name Class Date Apr. 6-10

WORKSHEET 78 TEACHING TRANSPARENCY

Use with Chapter 25
Section 25.3

Global Energy Use

1. In industrialized countries, what percentage of energy resources used is renewable? Nonrenewable?

2. In developing countries, what percentage of energy resources used is renewable? Nonrenewable?

3. Contrast the percentages of biomass use in industrialized and developing countries. Propose an explanation for any difference.

4. What energy resource is used most in industrialized countries?

5. What energy resource is used most in developing countries?

6. Identify two energy resources or categories of which industrialized and developing countries use the same or about the same percentage.

7. Based on the graphs, what can you conclude are the major differences in the way developing and industrialized countries use energy?

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EARTH-Choice #2

Name _____ Class Sewell Date Apr. 6-10

CHAPTER 25 CHAPTER ASSESSMENT

Energy Resources

Reviewing Vocabulary

Match the definition in Column A with the term in Column B.

Column A		Column B
_____	**1.** Energy contained in water and steam heated by Earth's internal heat	**a.** biodiesel
_____	**2.** Can be separated from oil shake and refined	**b.** kerogen
_____	**3.** Light, spongy plant material used as fuel	**c.** ethanol
_____	**4.** Produced from wheat or corn	**d.** geothermal energy
_____	**5.** Gas mixture manufactured from vegetable oil	**e.** peat

Complete each statement.

6. Materials like wood and coal are _____, which are burned to produce heat or power.

7. Energy sources known as _____ formed over thousands or millions of years from the compression and decomposition of organic matter.

8. The amount of work produced compared to the amount of energy used is called _____.

9. A common method of _____ is capturing and using heat during electric generation.

10. Sunlight falling on a(n) _____ produces a flow of electrons, which creates an electric current.

11. On a global scale, _____ meets current and future energy needs without damaging Earth's environment.

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EARTH #2

Name Class Sewell Date Apr. 6-10

CHAPTER 25 CHAPTER ASSESSMENT

Understanding Main Ideas (Part A)

For each item, write *F* for fossil fuel, *B* for biomass fuel, or *O* for other source of energy. Some items may have more than one answer. Then answer the questions.

_____ **1.** biogas

_____ **2.** charcoal

_____ **3.** coal

_____ **4.** ethanol

_____ **5.** fecal material

_____ **6.** field crops

_____ **7.** geothermal energy

_____ **8.** hydroelectric power

_____ **9.** kerogen

_____ **10.** straw

_____ **11.** natural gas

_____ **12.** nuclear energy

_____ **13.** peat

_____ **14.** petroleum

_____ **15.** tidal power

_____ **16.** wind power

_____ **17.** wood

18. What is the ultimate source of energy for most of the energy sources listed above? What are the two exceptions?

19. List four traditional fuels.

20. List five alternative energy resources.

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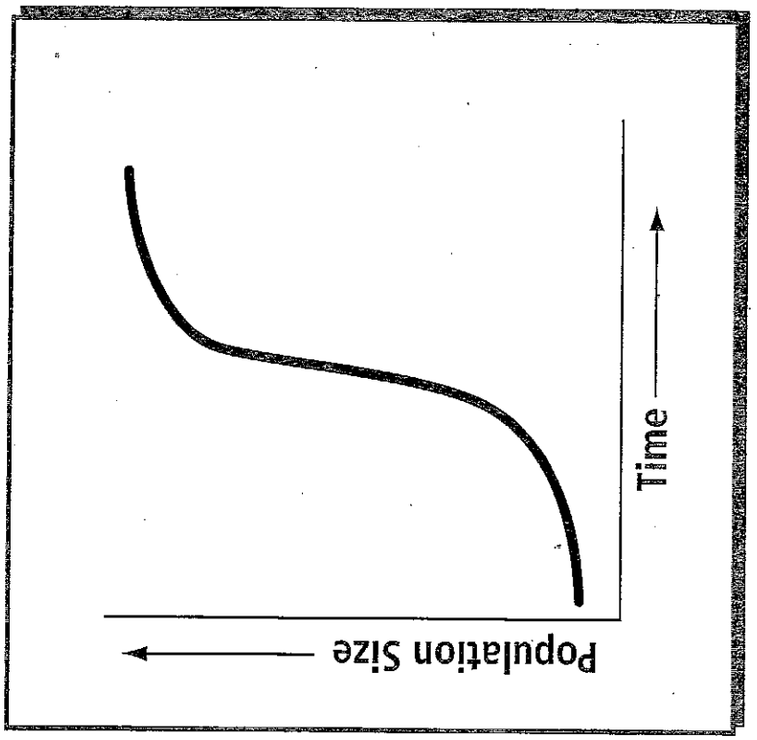
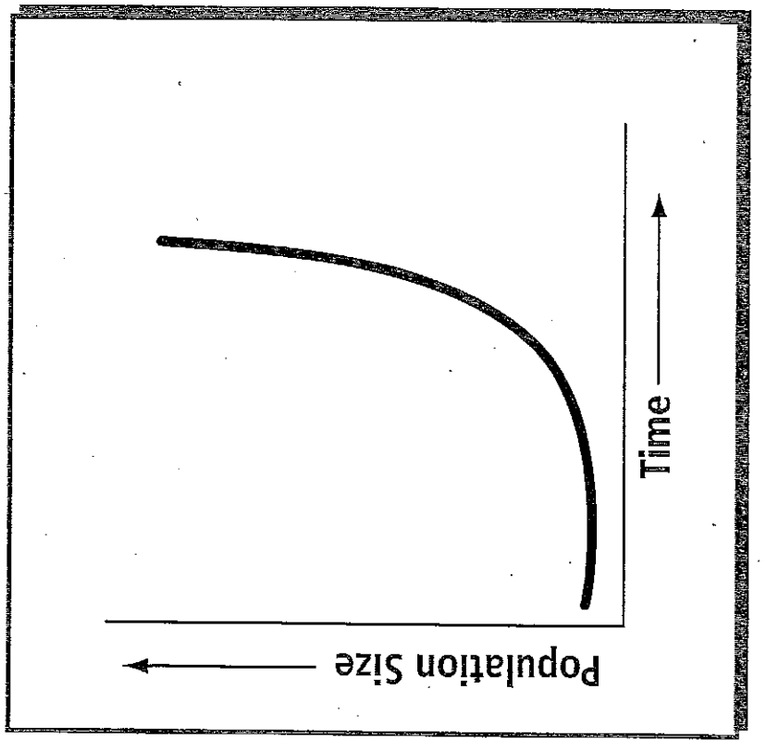
EHRTH #3

Sewell Apr. 6-10

Use with Chapter 26
Section 26.1

Population Growth





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EARTH #3

Name Class Sewell Date Apr. 6-10

WORKSHEET 79 TEACHING TRANSPARENCY

Use with Chapter 26
Section 26.1

Population Growth

1. What is population growth?

2. In the first graph, how does the rate of population growth compare for the first half and the second half of the time shown on the graph? Explain any difference.

3. What is the pattern of growth shown in the first graph called?

4. How does the second graph compare to the first? Explain any differences in terms of rate of population growth.

5. Which graph shows a population that has not reached the carrying capacity for the environment in which it lives? Explain your answer.

6. Which graph do you think most closely resembles the population growth of Earth's humans? Explain your answer.

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EARTH 443
Sewell Apr. 6-10

MASTER 80 TEACHING TRANSPARENCY

Bioremediation

Use with Chapter 26
Section 26.2

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Soil around an old factory is contaminated with lead (Pb).

Indian mustard plants are planted. Chemicals spread on soil make it easier for plants to absorb lead.

Plants containing lead are harvested.

EARTH #3

Name Class Date Sewell Apr. 6-10

WORKSHEET 80 TEACHING TRANSPARENCY

Use with Chapter 26
Section 26.2

Bioremediation

1. What impact has urban development had on the soil around the factory?

2. How are toxins removed from the soil?

3. What happens to the toxins once they enter the plants?

4. How does the amount of toxins in the soil compare in steps 1 and 3? Explain any difference.

5. After harvesting, why must the plants be disposed of carefully?

6. What is bioremediation?

7. Why might bioremediation be preferable over incineration of contaminated soil?

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EARTH #3
Sewell Apr. 6-10

MASTER 81

TEACHING TRANSPARENCY

Acid Precipitation

Use with Chapter 26
Section 26.3

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EARTH #3

Name Class Sewell Date Apr. 6-10

WORKSHEET 81 TEACHING TRANSPARENCY

Use with Chapter 26
Section 26.3

Acid Precipitation

1. What sources of the pollutants that form acid precipitation are shown in the diagram?

2. What types of fuels are burned to produce the pollutants that form acid precipitation?

3. From what pollutants does acid precipitation form?

4. Explain how acid precipitation forms and reaches the ground.

5. How does acid precipitation harm living things on Earth's surface?

6. How does acid precipitation harm buildings and other objects on Earth's surface?

7. Use the diagram to determine two things that people can do to decrease the formation of acid precipitation.

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