Week: April 13-17, 2020

Teacher: 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 4/20/2020 either by sending a picture of it and turning it into Google Classroom or turning it into the office.
Assignments: All assignments will be in "Google Classroom" and a paper copy will be provided from the Oakland main office. 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 Test, p.45-47	Collect 15 different rock samples. Take pictures or draw each and describe them: shape, various colors, size, sharp sides/ smooth, etc.	Take pictures of the moon and record the cycle that it is in from Monday through Friday. Please use the given table to complete.
Physical Science	Chapter 13: Review Worksheet, p.35-36, and the Chapter Test, p.37-38	Record your (not family) water usage throughout the week. Please use the given table to complete.	Do speed lab of races. Record your distance and time yourself. Please use the given table to complete.
Chemistry	Unit 4 Test (To be completed with notes and other resources)	Unit 5: Relative Mass Lab video and write-up	Do the Unit 5 worksheet entitled "The Mole". Use dimensional unit conversations to complete.
Pre-calculus	Complete Composite Functions Unit Test Version 2 on Khan or paper version.	Compete a worksheet on matrices.	Watch videos on Inverse trigonometric functions and do 8 problems for the exercises. They will be assigned in Khan academy.

Name _____ Date _____ Class _____

Chapter Test

Energy and Energy Resources

I. Testing Concepts

Directions: *Fill in the blanks with the type of energy being described.*

_____ 1. energy of hot objects

_____ 2. energy from separating charges

_____ 3. energy stored in the bonds between atoms

_____ 4. energy stored in the nucleus of an atom

_____ 5. energy of motion

_____ 6. energy of light

_____ 7. energy of position

8. State the law of conservation of energy. _____

Directions: *Fill in the blank with the word that best completes the following statements.*

9. Resources that will eventually be used up are _____.

10. Resources other than fossil fuels used to generate energy are called _____.

11. A _____ is a device that changes kinetic energy into electrical energy.

12. Energy resources that are continually being replenished are called _____.

13. A device with blades that turns a generator is a _____.

14. A _____ transforms sunlight directly into electricity.

II. Understanding Concepts

Skill: Classifying

Directions: *Match the type of energy from the list on the right with the item on the left. Some types of energy will be used more than once. List all of the appropriate types of energy for each item.*

_____ 1. flame of a candle

_____ 2. lamp

_____ 3. wall socket

_____ 4. moving ball

_____ 5. an object about to fall

_____ 6. electric mixer in use

_____ 7. bonds between protons

_____ 8. heated oven

_____ 9. mug of hot chocolate on a table

_____ 10. food

_____ 11. fossil fuels

_____ 12. an airplane taking off

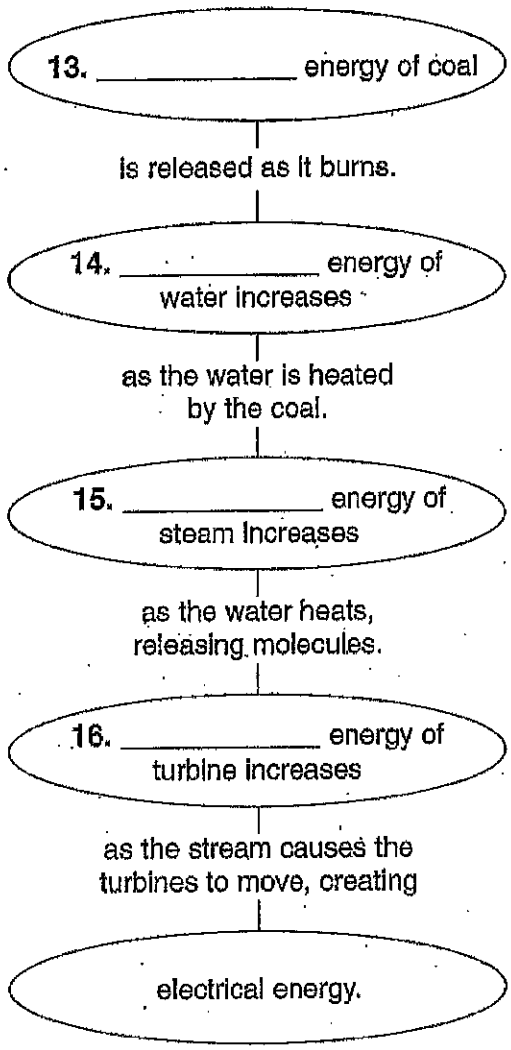
a. kinetic energy
b. potential energy
c. radiant energy
d. chemical energy
e. thermal energy
f. electrical energy
g. nuclear energy

Name Date Class

Chapter Test (continued)

Skill: Concept Mapping

Directions: *Fill in the following events chain for getting energy from coal.*



III. Applying Concepts

Directions: *Answer the following question on the lines provided.*

1. When a piece of clay falls from the table to the floor, what happens to the potential energy it had while it was on the table?

_____

_____

_____

Assessment

Name _____

Sewell / 7th Sel Choice 2/ Apr. 13-17

Water Usage

Date_____

Date	Toilet		Kitchen		Laundry room		Bathtub		Shower	
	#of times used	#of minutes	#of times used	#of minutes	#of times used	#of minutes	#of times used	#of minutes	#of times used	#of minutes
4/13										
4/14										
4/15										
4/16										
4/17										
4/18										
4/19										

Speed Lab

Name_____**Date**_____**Period**_____

Sewell / 7th Sci Choice 3/ Apr. 13-17

Objective: Students will be able to find speed by collecting data and dividing. Students will run three different ways and time the distance ran.

Procedure:

Step 1: Finding Distance

First, stretch out your legs and have someone measure the distance from one leg to the other. Take this number and multiply it by 10. Write it here _____. Take this distance and write it in distance section of all the tables below. Yes, it will be the same for all the trials.

Step 2: Timing yourself.

Now, mark a start and count out 10 paces by walking it out and then mark the end of your route. You will do the following and timed yourself or have someone else time you. You will walk, hop, skip, and run three times each. Fill in the chart below.

Walking		
Trial	**Distance**	**Time, s**
1		
2		
3		

Hopping		
Trial	**Distance**	**Time, s**
1		
2		
3		

Skipping		
Trial	**Distance**	**Time, s**
1		
2		
3		

Running		
Trial	**Distance**	**Time, s**
1		
2		
3		

Data Table: