

NAME _____

GROUP _____

CHAPTER 9 SYLLABUS

STANDARD:

(H) STUDENTS WILL UNDERSTAND THE CONCEPTS OF ENERGY.

PERFORMANCE INDICATORS:

(2) DEMONSTRATE THAT ENERGY CANNOT BE CREATED OR DESTROYED BUT ONLY CHANGED FROM ONE FORM TO ANOTHER.

(3) CATEGORIZE ENERGY SOURCES AS RENEWABLE OR NON – RENEWABLE AND COMPARE HOW HUMANS USE THESE RESOURCES.

OBJECTIVES:

1. WHAT IS ENERGY?
2. DEFINE KINETIC ENERGY.
3. WHAT IS THE EQUATION TO CALCULATE KINETIC ENERGY AND WHAT DOES EACH PART OF THE EQUATION MEAN?
4. WHAT IS POTENTIAL ENERGY?
5. HOW DO YOU DESCRIBE MECHANICAL ENERGY?
6. NAME THE SIX (6) FORMS OF ENERGY.
7. WHAT IS AN ENERGY CONVERSION?
8. STATE THE LAW OF CONSERVATION OF ENERGY.
9. NAME THREE (3) FOSSIL FUELS.
10. NAME THREE NONRENEWABLE RESOURCES.
11. NAME THREE RENEWABLE RESOURCES.

VOCABULARY I:

ENERGY KINETIC ENERGY POTENTIAL ENERGY
MECHANICAL ENERGY ENERGY CONVERSION

VOCABULARY II:

FRICTION LAW OF CONSERVATION OF ENERGY
ENERGY RESOURCE NONRENEWABLE RESOURCE
FOSSIL FUELS RENEWABLE RESOURCES

LAB: HOT AND COLD WATER (HYPOTHESIS)

TEACHER DEMONSTRATION (S)

WEB SITES OF INTEREST: www.scilinks.org (HSTP217)

CLASSWORK:

REVIEW SHEETS
DIRECTED READING
SCIENCE SKILLS

HOMEWORK:

VOCABULARY LISTS
REINFORCEMENTS
CONCEPT MAP
CHAPTER REVIEW P.240 EX. 6-13& EC=23

SUPPLEMENTAL PORTFOLIO:

PROBLEM SOLVING	MATH IN SCIENCE	VIDEOS
ENRICHMENT	NEWSPAPER ARTICLES	PUZZLERS
CHALLENGE	REPORTS	ET AL