

NAME _____

GROUP _____

CHAPTER 8 SYLLABUS

STANDARD: (1) STUDENTS WILL UNDERSTAND THE MOTION OF OBJECTS AND HOW FORCES CAN CHANGE THAT MOTION.

PERFORMANCE INDICATOR: (3) DESCRIBE AND CALCULATE THE WAYS THAT MACHINES CAN PROVIDE MECHANICAL ADVANTAGES IN PRODUCING MOTION.

OBJECTIVES:

1. DEFINE MACHINE
2. WHAT IS WORK?
3. WRITE THE EQUATION FOR WORK
4. WHAT IS MECHANICAL ADVANTAGE
5. WRITE THE EQUATION FOR MECHANICAL ADVANTAGES.
6. NAME 6 TYPES OF SIMPLE MACHINES
7. WHAT IS A COMPOUND MACHINE?
8. DEFINE EFFICIENCY
9. WHAT IS POWER?
10. WRITE THE EQUATION FOR POWER

VOCABULARY I:

WORK POWER JOULE WATT
MACHINE WORK INPUT WORK OUTPUT
MECHANICAL ADVANTAGE MECHANICAL EFFICIENCY

VOCABULARY II:

LEVER INCLINED PLANE WEDGE SCREW
WHEEL AND AXLE PULLEY
COMPOUND MACHINE

LAB: LEGGO / PULLEY/ LEVER

TEACHER DEMONSTRATION (S)

WEB SITES(S) OF INTEREST:

www.professorbeaker.com/simplemachines_inmachines.html

CLASSWORK:

REVIEW SHEETS
DIRECTED READING
SCIENCE SKILLS

HOMEWORK:

VOCABULARY LISTS
REINFORCEMENTS
CONCEPT MAP

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SUPPLEMENTAL PORTFOLIO:

PROBLEM SOLVING
ENRICHMENT
CHALLENGE

MATH IN SCIENCE
NEWSPAPER ARTICLES
REPORTS

VIDEOS
PUZZLERS
ET AL