

NAME _____

GROUP _____

CHAPTER 7 SYLLABUS

STANDARD: (E) STUDENTS WILL UNDERSTAND THE STRUCTURE OF MATTER AND THE CHANGES IT WILL UNDERGO.

PERFORMANCE INDICATOR: (1) PREDICT AND TEST WHETHER OBJECTS WILL FLOAT OR SINK BASED ON A QUALITATIVE AND QUANTITATIVE UNDERSTANDING OF THE CONCEPTS OF DENSITY AND BUOYANCY.

OBJECTIVES:

1. WHAT IS PRESSURE?
2. WHAT IS THE EQUATION FOR PRESSURE?
3. WHAT IS THE UNIT (LABEL) OF PRESSURE?
4. STATE PASCAL'S PRINCIPLE.
5. IN WHAT DIRECTIONS DO FLUIDS FLOW?
6. WHAT IS BUOYANT FORCE?
7. STATE ARCHIMEDES' PRINCIPLE.
8. WHAT DETERMINES WHETHER AN OBJECT WILL SINK OR FLOAT?
9. WHY CAN STEEL FLOAT?
10. STATE BERNOULLI'S PRINCIPLE.
11. NAME THE THREE FACTORS THAT MUST BE CONSIDERED WHEN THINGS FLY.

VOCABULARY I:

FLUID PRESSURE PASCAL DENSITY
ATMOSPHERIC PRESSURE PASCAL'S PRINCIPLE

VOCABULARY II:

BUOYANT FORCE ARCHIMEDES' PRINCIPLE
LIFT THRUST DRAG BERNOULLI'S PRINCIPLE

LAB: BUOYANCY LAB

TEACHER DEMONSTRATION (S)

WEB SITES OF INTEREST: www.scilinks.org (HSTP165)

CLASSWORK:

REVIEW SHEETS
DIRECTED READING
SCIENCE SKILLS

HOMEWORK:

VOCABULARY LISTS
REINFORCEMENTS
CONCEPT MAP

CHAPTER REVIEW P.180 EX. 1-11,16 & EC=20

SUPPLEMENTAL PORTFOLIO:

PROBLEM SOLVING
ENRICHMENT
CHALLENGE

MATH IN SCIENCE
NEWSPAPER ARTICLES
REPORTS

VIDEOS
PUZZLERS
ET AL