



Science 8

Section orange

SYLLABUS

Name: _____

Date: _____

Syllabus for Science 8

Text Book: Science Explorer: Physical Science, *Prentice Hall*, (2001)

0. Introduction
 - SI Prefixes
 - Simple Conversion factors
 - Multiple Conversion factors
9. Motion
 - Describing and measuring motion
 - Slow motion on planet Earth
 - Acceleration
10. Forces
 - The nature of force
 - Force, mass, and acceleration
 - Friction and gravity
 - Action and reaction
 - Orbiting satellites
11. Forces in fluids
 - Pressure
 - Transmitting pressure in a fluid
 - Floating and sinking
 - Applying Bernoulli's principle
12. Work and machines
 - What is work?
 - Mechanical advantage and efficiency
 - Simple machines
 - Machines in the human body
13. Energy and power
 - The nature of energy
 - Energy conversion and conservation
 - Energy conversions and fossil fuels
 - Power
14. Thermal energy and heat
 - Temperature and thermal energy
 - The nature of heat
 - Thermal energy and states of matter
 - Uses of heat
15. Characteristics of waves
 - Properties of waves
 - Interactions of waves
 - Seismic waves
16. Sound
 - The nature of sound
 - Properties of sound
 - Combining sound waves
 - How you hear sound
 - Applications of sound