

Name \_\_\_\_\_

Mid-Term Concept List

Directions for studying: The following represents a list of **most** of the concepts that are on the mid-term exam. I suggest that you look in your notes and create a note sheet (or flash cards) of the important things to know for each concept. In addition, you should look for and study questions from our topic tests (1-5A) that pertain to these concepts. Some questions will be very similar. Good luck and remember this test counts as two test grades.

### **Prologue Concepts**

Observations

Inferences

Scientific Notation

Volume Calculation ( $V=L \times W \times H$ )

Density Calculation ( $D=m/v$ )

### **Weather Related Concepts**

Electromagnetic Spectrum (ESRT page 14)

Temperature and Air Pressure conversions (ESRT page 13)

Conduction, Convection, radiation

Weather instruments and what they measure

Storm tracks (prevailing winds) in North America

Air Masses and source regions

Air pressure and humidity relationship

Circulation of winds around HIGH and LOW pressure systems

Weather associated with HIGH and LOW pressure systems

Coriolis effect

Relative Humidity and Dew Point temperature calculations (ESRT page 12)

Moisture belts (ESRT page 14)

Local breezes (sea and land breezes)

Fronts, Cloud formation, station models

Climate factors like latitude, ocean currents (ESRT page 4), mountains

### **Mineral & Rock Concepts**

Mineral properties, internal arrangement of atoms, (ESRT page 15)

Intrusive vs. Extrusive Igneous rocks, mineral composition (ESRT page 6)

Sedimentary rocks – sizes of sediments determines rock name (ESRT page 7)

Metamorphic rocks (ESRT page 7)

### **Earth and Maps' concepts**

Earth dimensions – how are they different

Oblate spheroid

Atmosphere layers (ESRT page 14)

Lithosphere

Hydrosphere

Latitude and longitude, equator, prime meridian, altitude of Polaris, time zones

Gradient calculations (ESRT page 1)

### **Earthquake concepts**

P waves vs. S waves

Epicenter location (ESRT page 11)