

# **8<sup>th</sup> Grade Cumulative Formative Assessment 3 Study Guide**

## **Water Cycle**

Draw a diagram of the water cycle. You must use the following vocabulary on your diagram  
**Evaporation, Condensation, Evapotranspiration, Precipitation, Runoff, Infiltration, Sublimation**

What is the difference between evaporation and condensation?

## **Layers of the atmosphere**

What are the two most abundant gases in the atmosphere?

In which layer of the Earth's atmosphere are meteoroids broken up?

## **Convection Currents**

What affect do ocean currents have on coastal areas?

Describe the movement of heat in the atmosphere and oceans?

What is the impact of the Gulf Stream on Western Europe?

What is the impact of the Coriolis Effect on ocean currents and wind?

### **Weather maps and air pressure**

What do isobars represent on a weather map?

How would you identify and cold front on a weather map?

Describe the weather you would experience in a high pressure system.

Describe the weather you would experience in a low pressure system

### **Atoms and molecules**

In which layer of an atom are electrons transferred to and from?

What are the differences between an element, molecule, compound?

What is a mixture?

### **Atoms and molecules**

Name 3 examples of homologous structures in animals.

What does a branching tree diagram or cladogram show?