**Guided Notes: Career Profile: Hydrology**

Hydrology is the study of the \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_ of water throughout Earth.

**Key Concepts:**

• Hydrologists study how water interacts with Earth's \_\_\_\_\_\_\_\_\_\_\_\_ and help manage water \_\_\_\_\_\_\_\_\_\_\_\_.

• The hydrologic cycle (water cycle) is the continual movement of water through Earth's \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_ surface.

• Hydrologists collect \_\_\_\_\_\_\_\_\_\_\_\_ using tools, equipment, satellites, and monitoring devices.

• Data collected by hydrologists is used to:

 - Predict \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_

 - Determine effects of \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ oil storage

 - Plan water projects like \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_

• Communities, governments, and water industry experts use hydrological data to prepare for \_\_\_\_\_\_\_\_\_\_\_\_ events and make \_\_\_\_\_\_\_\_\_\_\_\_ about water resource management.

**Real World Examples:**

1. Snowpack and Drought: Hydrologists study the relationship between \_\_\_\_\_\_\_\_\_\_\_\_ in mountains and potential for \_\_\_\_\_\_\_\_\_\_\_\_ conditions.

2. Flood Prediction: Hydrologists analyze rainfall and river data to predict potential \_\_\_\_\_\_\_\_\_\_\_\_ in communities near waterways.

**Word Bank:**

occurrence

movement

distribution

quality

systems

resources

atmosphere

oceans

land

data

floods

droughts

leaking underground

dams

levees

future

decisions

snowpack

drought

flooding