**Climate part II: The water cycle/ground water**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**What happens to water when received at Earth’s surface?**

**1**.) Water storage –

2.)Infiltration (seepage) –

3.)Runoff –

4.) Evapotranspiration –

**Factors Which Effect Infiltration (the movement of ground water):**

1. **Slope-**
2. **Porosity-**

The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the porosity, \_\_\_\_\_\_\_\_\_\_\_\_\_ infiltration will occur

**Porosity is determined by the following:**

1. Shape –
2. Packing-
3. Sorting-If all particles are the same \_\_\_\_\_\_\_\_\_\_\_ they are sorted.

- If the particles are different sizes/mixed they are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Relationship: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ does \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ effect porosity!

Ex: Sand has a \_\_\_\_\_\_\_\_\_\_\_\_\_ porosity than clay even though it has a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ grain size

1. **Degree of Saturation-**

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1. **Permeability-**

Impermeable-

Relationship: The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ permeable the soil/rock, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the infiltration

1. **Retention-**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ in particle size.

Example: \_\_\_\_\_\_\_\_\_\_\_\_\_\_sand has greater retention than \_\_\_\_\_\_\_\_\_\_\_\_\_\_ sand

Main relationship: Smaller grains= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Vegetation-**

Main Relationship: little vegetation= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Anthropogenic Influences (human construction)-**