**LEWISBURG AREA SCHOOL DISTRICT**

**LESSON PLAN**

**Teacher Name: \_\_\_\_\_Van Wagner\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_AP Enviro**

**Topic: \_\_\_soil texture Date of Lesson: \_\_Class #61**

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| **LESSON ESSENTIAL QUESTION**: | **Big Idea:**  Water continuously moves through the water cycle. Water is essential to living things. Liquid water makes earth a unique planet.  **Essential Question:**  What is a watershed? |
| **STANDARD / LEARNING TARGET:** | **Core standards addressed with this lesson:**  **7.4.9.A:**  Compare and contrast the effect of the physical systems on people across **regions** of the United States.  **7.4.9.B:**  Compare and contrast the effect of people on the physical region across **regions** of the United States.  **7.4.12.A:** Analyze the global effects of changes in the physical systems.  **7.4.12.B:** Analyze the global effects of human activity on the physical systems.  **S11.D.1.3.3:** Explain factors (e.g., nutrient loading, turbidity, rate of flow, rate of deposition, biological diversity) that affect water quality and flow through a water system.  **4.8.10.C.** Analyze how human activities may cause changes in an ecosystem.  \* Analyze and evaluate changes in the environment that are the result of human activities.  \* Compare and contrast the environmental effects of different industrial strategies (e.g., energy generation, transportation, logging, mining, agriculture). |
| **ACTIVATING STRATEGIES**:  (Anticipatory Set) | Bell Ringer- What 4 things make up soil?  Water  Air  Minerals  Organic matter |
| **KEY VOCABULARY**: | Hydrologic, volume, velocity, consumption. |
| **RESOURCES:** | Teacher slide show, demonstration, and lecture. |
| **TEACHING STRATEGIES**: | **Soil texture:**  **Sand-** large particles  **Silt-** medium  **Clay-** fine (feels greasy)  Loam  40% sand  40% silt  20% clay  Lamotte soil texture lab.  Return to seats when you get to “wait 30 minutes”  Feel method.  Complete lab. |
| **EXTENDED THINKING ACTIVITY / ASSIGNMENT:** | Chapter 14 questions |
| **SUMMARIZATION/ CLOSURE:** | Exit Bell Ringer:  If a soil is 70% silt, 20% sand, and 10% clay what is the texture? (use soil pyramid)  Silt loam  Silt |