

PICKENS COUNTY SCHOOLS

Standards-Based Assignment Packet

Subject/Grade: Environmental Science-Grade 10

Directions: Answer each guiding question and any sub-questions beneath it. Answers should be in complete sentences.

<p align="center"><u>Essential Questions/Key Learning Objectives</u></p>	<p align="center"><u>Essential Questions/Key Learning Objectives</u></p>
<p align="center">Earth: The Water Planet</p> <p>Guiding Question: Where is all of our water?</p> <ul style="list-style-type: none"> ● Explain how most groundwater is accessed. <p>Uses of Fresh Water</p> <p>Guiding Question: How can we change the way we use water?</p> <ul style="list-style-type: none"> ● List the three primary categories of freshwater use. <p>Water Pollution</p> <p>Guiding Question: How does water pollution affect humans and ecosystems?</p> <ul style="list-style-type: none"> ● Discuss the main categories of water pollution. 	<p>Guiding Question: What are the sources of air pollution?</p> <ul style="list-style-type: none"> ● Explain how both natural processes and human activities can cause air pollution. ● Describe how air pollutants affect human health. <p>Our Dynamic Climate</p> <p>Guiding Question: What factors determine Earth's climate?</p> <ul style="list-style-type: none"> ● Describe factors that affect how the sun warms Earth. ● Discuss the role of wind patterns in determining climate.

Earth's Atmosphere

Guiding Question: How can we describe Earth's atmosphere?

- Describe the properties of the atmosphere.
- Identify the four main layers of the atmosphere.

Effects of Climate Change

Our Dynamic Climate

Guiding Question: What factors determine Earth's climate?

- Describe factors that affect how the sun warms Earth.
- Discuss the role of wind patterns in determining climate.
- Explain how the oceans affect climate.

Guiding Question: What are the effects of climate change?

- State ways in which the warming atmosphere affects ecosystems and organisms.
- Explain how climate change is affecting people now.

1. Describe the “tragedy of the commons”. (SHORT ANSWER)
2. Describe the concept of the ecological footprint. (SHORT ANSWER)
3. Contrast environmental science and environmentalism. (SHORT ANSWER)
4. List the 6 components of the scientific method. (LIST)
5. Describe two ways of testing hypotheses. (SHORT ANSWER)
6. What is sustainability? (SHORT ANSWER)
7. List 6 environmental impacts we have caused. (LIST)
8. List 3 questions that are important to ask when evaluating conflicting statements about environmental issues. (LIST)
9. What is sustainable development? (SHORT ANSWER)