

## L. Llamas Environmental Science Lesson Plan Series

### Order of Lessons

1. Understanding AI in Renewable Energy Systems
2. Designing Ethical AI Solutions for Environmental Challenges

### Instructional Considerations

#### Differentiation & Accessibility:

- Provide scaffolded research templates and guiding questions for diverse learners.
- Allow students to present findings using multiple formats (poster, digital slide, infographic).
- Offer sentence starters and visual aids for Emergent Bilinguals (EBs).
- Group students strategically to ensure peer support and collaboration. Set up a display area or projector for presentations and whole-class discussions.

#### Scaffolded Research Templates

*Option A – Beginner Template (for students who need more support):*

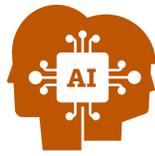
Topic: \_\_\_\_\_

What is it? (definition in your own words): \_\_\_\_\_

Why is it important? \_\_\_\_\_

Example in real life: \_\_\_\_\_

Picture or symbol: \_\_\_\_\_



*Option B – Intermediate Template:*

Definition (in your own words): \_\_\_\_\_

How does this connect to energy, environment, or technology? \_\_\_\_\_

What are the benefits? \_\_\_\_\_

What are the challenges or problems? \_\_\_\_\_

Interesting fact I found: \_\_\_\_\_

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*Option C – Advanced Template (for independent learners):*

Definition: \_\_\_\_\_

How does it impact society, environment, or economy? \_\_\_\_\_

Example(s) of current use: \_\_\_\_\_

Future possibilities or improvements: \_\_\_\_\_

My opinion/reflection: \_\_\_\_\_

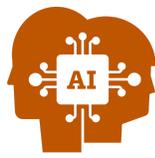
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**Guiding Questions for Research**

What does this term mean in simple words?

Why is this concept important for our world?

How is this connected to renewable energy, sustainability, or technology?



Who benefits from this idea, and who might face challenges?

What could this look like in the future?

### **Supports for Emergent Bilinguals (EBs)**

#### Sentence Starters:

“This term means...”

“It is important because...”

“One example is...”

“In the future, it could...”