

Lesson Plan 3 – STREAMS Education – Multiliteracies

Lesson Plan: **Multiliteracies and Climate Action for 8-12 Year Old Students**

Objective: Students will gain an understanding of the impact of climate change and learn ways to take action to reduce their carbon footprint.

Materials:

- YouTube videos on climate change and climate action (age-appropriate and authentic)
- Chart paper and markers
- Index cards
- Sample quiz questions

Procedure:

1. Introduction (10 minutes)
 - Begin by asking students if they have heard about climate change or global warming.
 - Discuss with them what they know about the topic, and what they think the impact of climate change might be.
 - Write their responses on the chart paper.
2. Watch Videos (30 minutes)
 - Show the class age-appropriate YouTube videos on climate change and climate action. Examples include:
 - "Climate Change Explained" by Kurzgesagt – In a Nutshell
 - "How to Reduce Your Carbon Footprint" by TED-Ed
 - "A Teenager's Guide to Climate Change" by The New York Times
 - After each video, pause and ask students if they have any questions or comments.
3. Carbon Footprint (20 minutes)
 - Explain to students what a carbon footprint is and why it's important to reduce it.
 - Have each student write down three things they do in their daily lives that contribute to their carbon footprint on an index card.
 - Collect the index cards and discuss ways to reduce their carbon footprint as a class.
4. Climate Action (20 minutes)
 - Have students brainstorm ways they can take action to reduce their carbon footprint and help the planet.
 - Write their ideas on the chart paper.
5. Assessment (20 minutes)
 - Distribute a quiz with questions that test their knowledge on climate change and climate action. Sample questions include:
 - What is a carbon footprint?
 - Why is it important to reduce your carbon footprint?
 - Name three ways you can reduce your carbon footprint.
 - After students complete the quiz, go over the answers as a class to reinforce their understanding.
6. Conclusion (10 minutes)
 - Review the importance of taking action to reduce our carbon footprint and help the planet.
 - Encourage students to continue learning and taking action to reduce their carbon footprint.

Assessment:

- Sample Quiz Questions:
 1. What is a carbon footprint?
 - a. The mark left by your shoes in the sand
 - b. The amount of greenhouse gases released into the atmosphere by human activity
 - c. The amount of water used in daily activities
 2. Why is it important to reduce your carbon footprint?
 - a. To prevent climate change and its negative impacts
 - b. To save money on energy bills
 - c. To get more exercise by walking or biking instead of driving
 3. Name three ways you can reduce your carbon footprint.
 - a. Turning off lights and electronics when not in use
 - b. Eating less meat and dairy
 - c. Using public transportation or walking/biking instead of driving.
- Rubric: Quiz responses will be graded on a 3-point scale: 3 – demonstrates a thorough understanding of the concept 2 – demonstrates a basic understanding of the concept 1 – demonstrates a limited understanding of the concept