

LESSON PLAN

Grade: 8

Subject: Science

Date: 11-9-2025

Topic: Carbon Footprint

Duration : 40 Min

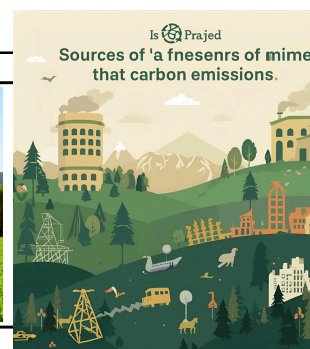
Lesson Focus and Goals:

- Students will understand what a carbon footprint is and why it is important.
- Students will identify common sources of carbon emissions in daily activities.
- Students will analyze the impact of carbon footprints on the environment.
- Students will explore strategies to reduce their carbon footprint.

Materials Needed:

Whiteboard and markers

- Chart paper and colored markers
- Projector and screen
- Access to the internet for a short video
- Printed worksheets with a carbon footprint calculator
- Sample household items (e.g., energy-efficient bulb, reusable bag)



Structure / Activity:

Introduction (5 minutes): Begin with a short discussion on how daily activities affect the environment.

2. Video Presentation (5 minutes): Show a 2-3 minute video explaining carbon footprints and their significance.

3. Class Discussion (10 minutes): Discuss the video and ask students what activities might contribute to a carbon footprint.

4. Group Activity (10 minutes): Divide students into small groups.

- Provide each group with a worksheet to calculate the carbon footprint using hypothetical scenarios.

5. Conclusion and Reflection (5 minutes): Ask students to share one new thing they learned and one way they can reduce their carbon footprint.

Assessment:

Participation in Group Activity - Observe and note students' engagement and contributions during the group activity.

- **Worksheet Completion:** Review the completed worksheets to assess understanding of calculating and reducing carbon footprints.

Reflection Sharing: Evaluate students' reflections to gauge their grasp of lesson content and personal commitment to reducing their carbon footprint.