

Project Based Learning

Sustainability in Transport

Using this guide, you can develop your own project-based learning unit that will actively engage your students in the real-world concepts of sustainability and transport.

Project based learning starts with an essential question that is used as a springboard to inspire and motivate students to map their own journey of discovery and learning, guided by you the teacher.

You can determine the duration of your unit which could be over a term, semester, or year.

Essential Question:

Why should people reduce their reliance on cars, and how do we motivate them to do that?

Overview:

This question allows students to explore sustainability, transport, and environmental issues through an investigative project. The Idle-Free Campaign could serve as one part of a broader focus on emission reduction and active transport. This encourages cross-curricular projects and student-led inquiry.

How to Implement the Project:

1) Launch & Research

Introduce the essential question, research car reliance, assign specific projects according to student ideas and interest.

2) Awareness & Action

Implement campaigns (Idle-Free, Walk to School), create action plans, timelines, collect data.

3) Cross-Subject Integration

Connect projects with mathematics, humanities, science and the arts for a deeper understanding.

4) Presentation & Reflection

Students present findings, reflect on impact, and propose further actions.

Student ideas could include:

5) Idle-Free Campaign (Science):

Raise awareness of the impact of vehicle idling through posters, videos, and community engagement. Work with local authorities to measure air quality improvements.

6) Active Transport (Health and Physical Education, Geography):

Organise walk/cycle-to-school events, survey transportation habits, and explore the health benefits of walking. Map safe routes and calculate emission reductions.

7) Sustainable Urban Planning (Humanities and Social Sciences, Mathematics):

Analyse how cities reduce car dependency. Students can design eco-friendly neighborhoods and explore urban planning.

8) Renewable Energy & Vehicle Alternatives (Science, Digital Technology):

Research electric vehicles, hybrids, and renewable energy sources. Create models of sustainable transport systems.

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