On the Road to Cleaner Air: Overview Guide

On the Road to Cleaner Air is an exciting cross-curricular workshop designed to educate pupils around atmospheric air pollution, ahead of taking part in the School Road Signs Competition. The workshop is composed of three sessions; each complement one another but allows flexibility to be delivered as a standalone session if required.

**Session 1** - *This session explores the evolution of Earth’s atmosphere, the role of oxygen in plants and humans, air pollution sources, and the impacts on our health and how to mitigate against them.*

**Session 2** - *This session focuses on vehicle emissions in the form of NOx gases, covering how they are created in the combustion engine, chemical reactions, and how to carry out fieldwork in your local area to spot their negative environmental impacts.*

**Session 3** - *This session aims to explore different ways to tackle air pollution, specifically looking into reduced emission zones across Wales and the importance of design in making drivers ethical and informed citizens.*

Each session contains the following resources:

**Lesson plan:** The lesson plan gives the deliverer an overview of the lesson and the learning activities, describing each activity and the learning/discussion points. References are made to the curriculum throughout. The lesson plan also indicates any resources required and the rough timings for each section.

**Session PowerPoint:** The workshops are designed around a PowerPoint which is used to deliver the content.

**Additional learning resources**: For certain learning activities, additional materials are provided in student worksheets, identification guides and posters.

**Delivers guide**: Most of the content, when given alongside the lesson plan, is adequate support for the deliverer. Session one covers slightly more complex issues; therefore, we have included a delivers guide to help guide the deliverer through these topics.