**Links to other resources available online**

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| --- | --- | --- | --- |
| Details | Suitable for | Resources in pack | Website/resources available (via Leicester schools extranet) |
| ***Lesson 1 – Greenpeace Air Pollution Health Crisis***  Overall introduction  Debate or role play to convince London Mayor to tackle air quality (specifically diesels)  ***Lesson 2 – Greenpeace Air Pollution Health Crisis***  Persuasive writing to convince London Mayor to tackle air pollution | KS2 | PowerPoint – pollution molecules.  Cause, effect or solution table  Video – highlighting the problems of diesel engines | Green Peace ‘Air Pollution Health Crisis’   * [Teacher pack](https://schools.leicester.gov.uk/media/5354/air-pollution-teachers-pack.pdf) * [Presentation](https://schools.leicester.gov.uk/media/5355/air-pollution-lesson-presentation.pptx) * [Persuasive writing](https://schools.leicester.gov.uk/media/5353/air-pollution-persuasive-writing-poster.pdf) * [Video](https://schools.leicester.gov.uk/media/5356/air-pollution-video.mp4) |
| ***Clean Air Schools Pack – Friends of the Earth***  Overall introduction  Lesson 1 – background to air pollution, causes  Lesson 2 –effects of air pollution  Lesson 3 – Communicating and campaigning about air pollution | KS2 | What is air pollution fact sheet  Scenarios sheets  Concept Cartoon  Thinking how to detect air pollution information  Simulation of lung function and impact of air pollution  Identify causes of local pollution. Create a persuasive letter/slogan/banner to improve air quality  Fact sheet about indoor plants and improving air | Clean Air Schools Pack   * [Resources and lesson plans](https://schools.leicester.gov.uk/media/5348/clean-air-schools-pack-friends-of-the-earth.pdf) * [PowerPoint](https://schools.leicester.gov.uk/media/5352/clean-air-schools-assembly-2018.pptx) |
| ***Southwark Clean Air 4 Schools programme***  ***Evaluation of programme (Clean air 4 Schools)***  Baseline surveys carried out before start of each programme | KS2 | Really useful effective evaluation of Clean Air 4 Schools pack. | [Southwark Clean Air 4 Schools programme report](https://schools.leicester.gov.uk/media/5343/southwark-council-air-quality-pack.pdf) |
| ***Clear Air 4 Schools programme (London Sustainability Exchange (LSx)***  ***Citizen Science experiments***  Lichen bio-indicator (OPAL air field survey) – available directly  Citizen Science experiments   * Diffusion tube samples * Ghost wipes * Ozone badges * Surface Wipe Analysis   Anti-idling/travel surveys  Peppered Moth Pledges | KS2 | Survey and information pack to carry out  Steps on how to use (however Ghost wipes and ozone badges advised not to use)  Survey to use to look at how many cars are idling outside school  Pledge linked to the pepper moths | [Clear Air 4 Schools programme (London Sustainability Exchange (LSx](https://schools.leicester.gov.uk/media/5351/clean-air-for-primary-schools-toolkit-london.pdf)) |
| ***OPAL investigating air pollution with sticky tape peels***  Outline of method to investigate air pollution with sticky tape | KS2 | Using microscopes to investigate pollution levels | [Imperial College London – OPAL air pollution sticky tape peels](https://schools.leicester.gov.uk/media/5336/investigating-air-pollution-with-sticky-tape-peels-opal.pdf) |
| ***Cleaner Air, Better Health resource***  Lesson 1 – what is air?  Lesson 2 – What is air pollution?  Lesson 3 – Health and Air Pollution  Lesson 4 – Measures to combat air pollution | KS2 & KS3 | Experiment 3 – making smog  Demo flour and light to show dust particles  4 different activities aimed at reducing air pollution (saving electricity, low emission zone, Tata Steel, Transport) | [Cleaner Air, better Health resource](https://schools.leicester.gov.uk/media/5349/air-pollution-lesson-plans-cleanerairbetterhealth.pdf) |
| ***Healthy Air – Environmental Protection UK***  List of suggested activities, background reading on pollution  Examples of how to monitor pollution using cotton swabs and cleaning leaves practical | KS1 & KS2 | Cartoons which would be useful for describing air pollution | [Healthy Air – Environmental Protection UK](https://schools.leicester.gov.uk/media/5350/healthier-air-education-pack.pdf) |
| ***Learning about Air Quality (Scotland’s environment – North Lanarkshire Council)***  All online resources (and worksheet downloads)   * History * Major Pollutants * Monitoring and Measurements * Air quality around the world * Solutions | KS2 | [Timeline of pollution](http://www.learnaboutair.com/primary/history_a1.html) interactive, could be recreated in PowerPoint(?)  [What am I?](http://www.learnaboutair.com/primary/pollutants_a1.html) quiz type activity?  VIDEO: air quality around the world might be useful | <http://www.learnaboutair.com/> |
| * Fuels * Crude oil * Combustion of fossil fuels * Pollution and health * Pollution and the environment * Solutions: What can be done? | KS3 Science | Various resources and video |  |
| ***Switch off and breathe – campaign***  Information about anti-idling (saving money, law and health implications – Scotland based) | KS2 | Video links on YouTube about anti-idling | <http://switchoffandbreathe.org/schools/> |
| **STOP Project – Schools Tackling Oxford’s Air Pollution**   * Practical methods (diffusion tubes, surface wipes, ozone badges, lichen study) * Idling surveys * Travel questionnaires * Informing | KS2 | Resources and worksheets for activities | [Air Quality Schools Kit (STOP)](https://schools.leicester.gov.uk/media/5347/air-quality-school-toolkit-oxford.pdf) |
| **Cleaner Air 4 Schools – KS2 Science and Geography**   * What is Air Quality? * How does it affect us? * How do we measure it? * Can we make a difference? | KS2 | Baseline surveys on travel to school  Experiments using:   * Lichen mapping * NO2 diffusion tubes * Air quality wipes | [Cleaner Air 4 Schools KS2](https://schools.leicester.gov.uk/media/5337/cleaner-air-4-schools-ks2-science-and-geography.pdf) |
| **Care for Kent Air**   * Example lesson ideas on tackling air quality * Example lesson ideas on climate change | KS2 KS3 | Lesson ideas linked to their website with interactive materials | [Weblink to their website](http://carefor.kentair.org.uk)   * [Teacher pack (background information)](https://schools.leicester.gov.uk/media/5338/care-for-kent-air-teacher-pack.pdf) * [Lesson ideas](https://schools.leicester.gov.uk/media/5335/care-for-kent-air-lesson-ideas.pdf) * Resource cards on air pollutants   + [Carbon monoxide](https://schools.leicester.gov.uk/media/5357/care-for-kentair-factsheets-carbon-monoxide.pdf)   + [Nitrogen dioxide](https://schools.leicester.gov.uk/media/5358/care-for-kentair-factsheets-nitrogen-dioxide.pdf)   + [Sulphur dioxide](https://schools.leicester.gov.uk/media/5359/care-for-kentair-factsheets-sulphur-dioxide.pdf)   + [Particulates](https://schools.leicester.gov.uk/media/5360/care-for-kentair-factsheets-particulates.pdf)   + [Ozone](https://schools.leicester.gov.uk/media/5361/care-for-kentair-factsheets-ozone.pdf) |
| ***Scotland’s environment***  Importance, causes and monitoring  Air pollution around our school  Impact of air pollution  Tackling air pollution | KS3 Geography resources | Method for air pollution survey  Interactive game on developing solutions | [Virtual City Game – how to reduce air pollution](https://www.environment.gov.scot/educational-resources/learning-about-air-quality/virtual-city/) |
| **ACE Urban Air Quality Information Programme, Manchester Metropolitan University**  Lesson 1 – ***History is air quality*** History of Urban Air Pollution | KS3 KS4 | Background information for KS3/4 and glossary of terms  Fact sheets and information, questions | [ACE information programme pack](https://schools.leicester.gov.uk/media/5339/urban-air-quality-manchester-university.pdf) |
| Lesson 2 – ***Data handling – air pollution***  Changing patterns of air pollution (pollution levels and monitoring) | KS3 KS4 | Fact sheets, data handling of pollution levels | [ACE information programme pack](https://schools.leicester.gov.uk/media/5339/urban-air-quality-manchester-university.pdf) |
| Lesson 3 – ***Urban Air pollution today***  Information about pollution effecting today | KS3 KS4 | Factsheet, data handling | [ACE information programme pack](https://schools.leicester.gov.uk/media/5339/urban-air-quality-manchester-university.pdf) |
| Lesson 4 – ***Improving air quality***  Transport and Urban Air pollution | KS3 KS4 | Role play looking at different strategies of reducing pollution | [ACE information programme pack](https://schools.leicester.gov.uk/media/5339/urban-air-quality-manchester-university.pdf) |
| Lesson 5 – ***Industry and urban air pollution*** | KS3 KS4 | Gain information about local pollution and impact | [ACE information programme pack](https://schools.leicester.gov.uk/media/5339/urban-air-quality-manchester-university.pdf) |
| Lesson 6 – ***Health problems of air quality***  The effect of urban air pollution | KS3 KS4 | Background information about the effect of air pollution and crossword to review knowledge | [ACE information programme pack](https://schools.leicester.gov.uk/media/5339/urban-air-quality-manchester-university.pdf) |
| Lesson 7 – ***Improving air quality***  Responses to urban air pollution | KS3 KS4 | What can be done to improve air quality? Strategies and developments | [ACE information programme pack](https://schools.leicester.gov.uk/media/5339/urban-air-quality-manchester-university.pdf) |
| **Clean Air Schools Toolkit**  ***Solutions and running a campaign***  Running a campaign to raise awareness of air pollution | KS1-4 | Tools and resources to run a campaign in school | [Clean Air Toolkit (Clean Air Day 2018)](https://schools.leicester.gov.uk/media/5340/clean-air-day-toolkit.pdf) |
| **Best practice for reducing near road pollution**  **(US Environmental Protection Agency – US document)** | Senior leaders | Suggestions and practical ideas to improve air quality in and around roads | [EPA best practice document](https://schools.leicester.gov.uk/media/5341/best-practice-for-reducing-near-road-pollution-epa.pdf) |
| ***NEU background information for school leaders***  Background information about air pollution | School leaders | Information | [Air pollution guidance for school staff](https://schools.leicester.gov.uk/media/5334/air-pollution-guidance-for-school-staff-neu.pdf) |
| ***DEFRA Air Quality Guide 2017***  Background information about air pollution and government action | School leaders | Information | [DEFRA air quality guide](https://schools.leicester.gov.uk/media/5344/defra-air-quality-guide.pdf) |

