

Operation Transport & Air - Footprint

Whole System Category	Learning Area Outcomes	Mission Description	Learning & Assessment Strategies	Linked programs
Transport & Air	Operation Air has three Missions. Each mission has a Checklist and a Debrief. The learner is encouraged to complete these to gain “greenhouse balloons’ to use in the My Home game.			
Mission One Trees and CO ₂	Hug a Tree checklist – pre-test of knowledge for the mission. NAPLAN format – automatically tallies.			DEC website AirWatch website ABC website Greenhouse Accounting website Guardian website Air Watch Travel Smart UK Atmosphere, Climate & Environment website EPA Victoria website
	Science: Investigating & Communicating Scientifically. Life & Living Society & Environment: Investigation, Communication & Participation. Natural & Social Systems Values: Social & Civic Responsibility Environmental Responsibility	Hug a Tree - Find out how trees will help in the fight against climate change. How much CO ₂ do trees capture? Become a maths expert and use a tree carbon calculator to discover how much is stored in your school playground.	Science/S&E Website investigation Organising information Creative image Concept Map Compare & Contrast Framework Teacher rubric	
Hug a Tree debrief – post-test of knowledge for the mission. NAPLAN format – automatically tallies.				
Mission Two Air Quality	Bad Gas checklist – pre-test of knowledge for the mission. NAPLAN format – automatically tallies.			
	Science: Investigating & Communicating Scientifically S & E: Investigation, Communication & Participation. Natural & Social Systems Values: Social & Civic Responsibility Environmental Responsibility	Bad Gas! – The air we breathe is made up of many different gases which we can’t really see. Cars and trucks add gases that are not really good for us to breathe. Learn how to calculate a car’s greenhouse gas emissions. How much is too much Bad Gas!	Science/S&E Investigation Website investigation Organising information Fishbone Tri-pie Poster presentation Teacher rubric	
Bad Gas debrief – post-test of knowledge for the mission. NAPLAN format – automatically tallies..				
Mission Three Air Pollution	Chemistry Capers checklist – pre-test of knowledge for the mission. NAPLAN format – automatically tallies.			
	Science Investigating, Communicating Scientifically. Earth & Beyond S & E: Investigation, Communication & Participation Natural & Social Systems Values: Environmental Responsibility	Chemistry Capers: Ever wanted to be a mad scientist and carry out a chemistry experiment? Air looks pretty clear but is full of chemicals that are good and bad. Go on a journey to explore different aspects of air pollution. Get ready to do safe simple chemistry experiments along the way.	Science/S&E Investigation Website investigation Science Investigation Organising information Six Thinking Hats Science Experiment Report PowerPoint presentation Teacher rubric	
Chemistry Capers debrief – post-test of knowledge for the mission. NAPLAN format – automatically tallies.				