



Star

STAR INNOVATORS CHALLENGE

OPEN TO ALL STAR SECONDARY PUPILS



EMISSION ERASER!

You are challenged to help make this world
a better place for everyone and everything!

EMISSION ERASER!

Our world and its wildlife are amazing and beautiful, but they are slowly being damaged by the impact of humans. Many of our wonderful species of plants and animals are in danger of becoming extinct due to significant and widespread changes to their ecosystems as a result of human life.

Reversing our impact might seem like a huge task, but we can all make a big difference by making some small changes. *Should I recycle that plastic bottle? Should I buy food locally? Should I turn the lights off when I leave a room or switch my charger off at night? Why? What difference will it make to our planet?*

Your Emission Eraser! challenge is to plan and create an innovative, futuristic model of a human biome or ecotown.

How can you make your house, street or town more eco-friendly? What would be the lasting impact of the changes?

You should consider real world problems affecting your local community and think about how science and technology can improve the lives of future generations and reduce human impact on the environment.

Here are a few ideas to get you started:

- > What species of plants and animals are commonly found near to your home? How can you preserve the diversity of species found in your local area?
- > What are the recycling statistics like in your local area? What could councils, businesses and residents do to recycle more?
- > Are there any local litter issues? Where do they occur most often and how could they be eradicated?
- > What is the global impact of human activity? What is being done to improve and reduce this?
- > What impact does our food have on the planet? How could we reduce the impact of food on the environment?
- > How has lockdown helped to improve the quality of the air we breathe?



- 1ST PRIZE**
KS3 - Solar powered robot car
KS4 - Steam rocket launcher
- 2ND PRIZE**
KS3 - Solar powered robot
KS4 - Solar powered robot kit
- 3RD PRIZE**
KS3 - Grow your own mini trees
KS4 - Magnetic lab



You'll find lots of ideas online, so you may want to research your idea before you start.

(click on the links below)

[How to be a greener community](#)

[Human ecosystems](#)

[Extinction](#)

[How to be greener other than recycling home](#)

Email a picture (or pictures) of your work and an explanation of the science behind your creation to your school by midday on Wednesday 24th March. Your school will choose the best two pieces of work and will enter them into a Star Academies national competition. Good luck Emission Erasers!