

# RISE FOR SCHOOLS

RESEARCH | INNOVATION | SUSTAINABILITY | ENTERPRISE



LEEDS  
BECKETT  
UNIVERSITY



Loughborough  
University



University  
of Suffolk

2025 Competition

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This year, Loughborough University are hosting the International **SEEDS** Conference.

SEEDS stands for Sustainable Ecological Engineering Design for Society.

Researchers from across these 4 different universities and from across the world would like to hear **YOUR** ideas on how we can make the world a more **sustainable** place.

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## What does sustainability mean?

- If something is sustainable, it can be **carried on** for a long period of time.
- Being sustainable means doing little or no harm to the **environment**.
- Throwing plastic bags away is not sustainable because the planet will eventually run out of landfill space.

Find out more about sustainability [here](#).

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We are asking you to create a poster to share your ideas and research on how we can make a more sustainable world! Ideas include...

Tackling  
climate change

Reducing our  
ecological  
impact

Designing new  
ways to live  
and work

Developing  
new materials  
for  
construction

Saving water

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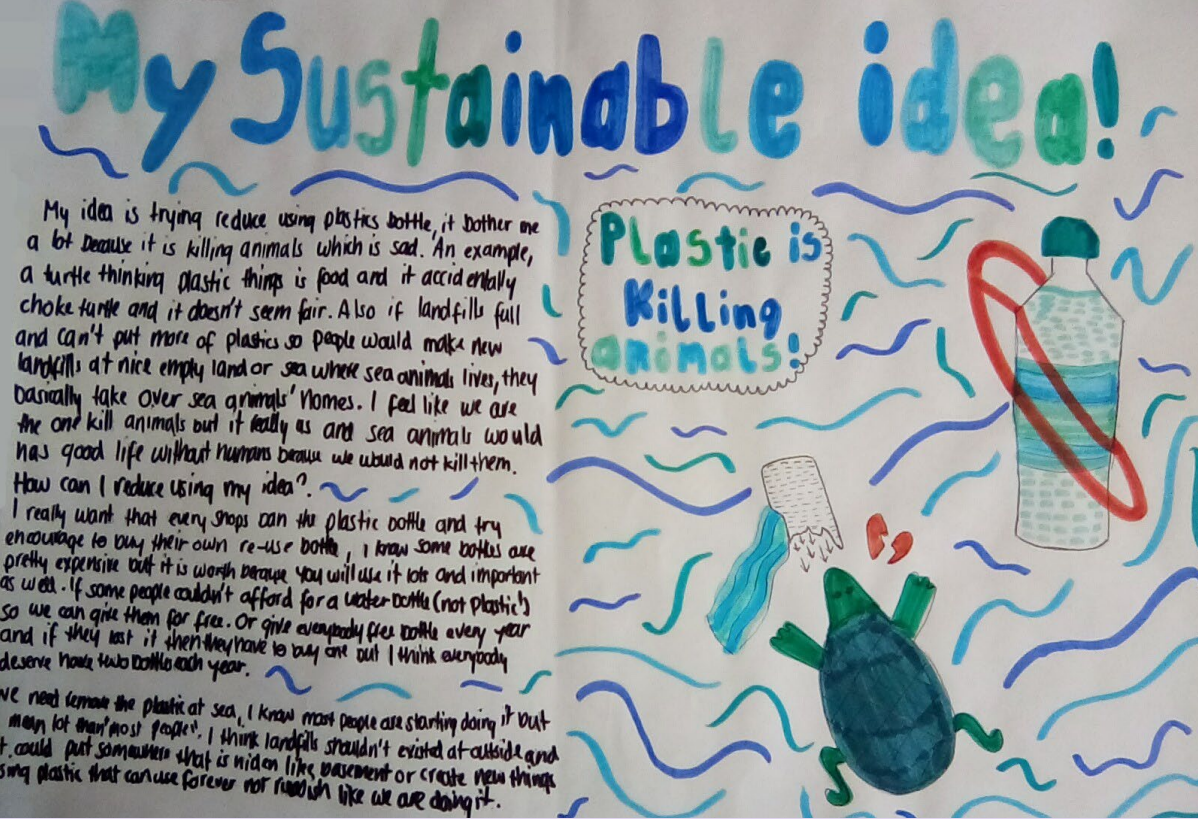
This year, in particular, we want you to think about ways you could *encourage others to live sustainably as part of their everyday lives.*



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# Here are some examples of previous entries!



# THREATS TO BEES



15-20% Bees die each year. up to approximately 100 dead bees per hive. only 2 trillion bees are left in this world.

a world without bees could struggle to sustain the global human population of 7 billion.

Bees are dying quickly because of pesticides and habitat loss.

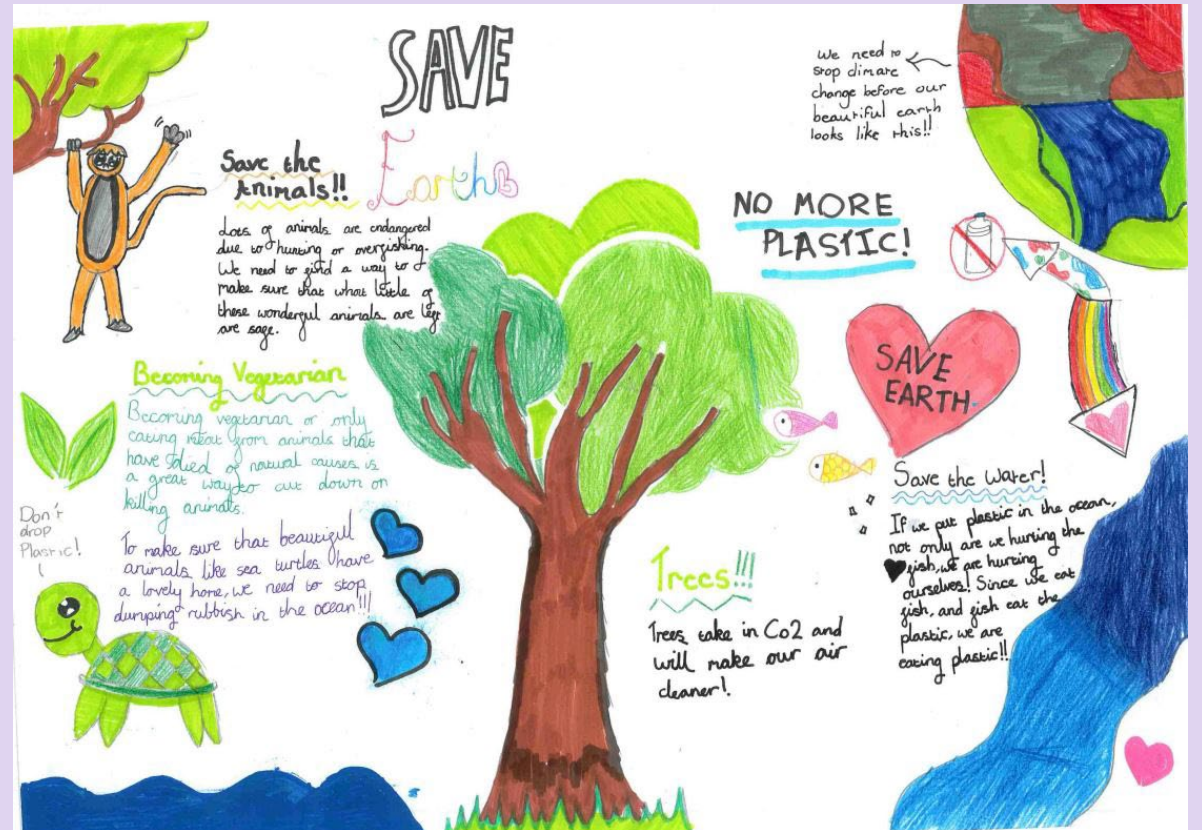
- Why bees are important
- 1 Bees are beneficial because of their pollination services, helping to provide food in the form of fruits.
  - 2 Bees also pollinate goods eaten by other animals and birds.
  - 3 Although there has been much talk regarding the contribution of bees to the food crop industry, it is very important.
  - 4 Aside from the pollination, bees contribute greatly to the ecological balance and general enrichment of the landscape.
- And that is why they are important!



I love you so why do you hurt me?

- Facts about bees!
- 1 Bees have six legs.
  - 2 Bees are insects, so they have six legs.
  - 3 Male bees in the hive are called drones.
  - 4 Bees fly about 20 mph.
  - 5 Female bees in the hive (except the queen) are called workers.
- How to protect our bees!
- 1 Put the sprays away!
  - 2 Plant bee friendly flowers!
  - 3 Let your garden get a little messy!
  - 4 Only source local honey!
  - 5 Help protect their habitat!
  - 6 Provide an oasis!
  - 7 Help create pollinator spaces in your garden!
  - 8 Help each other to understand what bees need!







Save  
The  
World!



Don't chop trees.



Don't throw  
Food!



Recycle



Save energy



Grow  
Flowers

Pick up  
Drinks.



(Fizzy)

Grow  
Fruits.



Grow  
Trees.

Pick up  
Water  
Bottles  
(Plastic)



Cardboard not plastic



Recycle more.



### How to make less rubbish



Shop less packaging



Buy water bottles. Use again.



Too much waste.

# Why sustainable cosmetics are Important

Makeup- it's just something you put on your face to make you prettier right? Well, have you ever considered the environmental impacts that happen with every brushstroke?

Check your products don't have animal-derived ingredients!

The beauty industry produces at least 120 bn pieces of plastic per year

We know animals can be killed for horns, tusks and other things, but did you know deer are killed for their scent, musk?

Buy cosmetics with paper or recyclable packaging!

More than 500,000 animals die per year due to animal testing

Use vegan and cruelty-free items!

Palm Oil! We all know how damaging it can be, so don't get caught out. Mostly, it's not listed as palm oil in the ingredients list. It has over 25 names, the most common include Sodium Laurel and Glycerol

## OUR Fragile Earth

**SAVE OUR EARTH!**

### CORAL REEFS

The problem: Coral Bleaching  
The causes: Change in ocean temperature, Runoff and pollution and Overfishing and sunlight.

### THE SOLUTION

1. TACKLE CLIMATE CHANGE by cutting the use of fossil fuels, using less energy and cleaning the air.
2. CUTTING POLLUTION IN THE SEA by reducing the plastic we use, reduce the amount of boat diesel and by protecting the seas from human activity.

**STOP SEEING THE SEAS as a bin**

We all need to stop seeing the seas as a bin in less than 10 years it will all be dead because of our selfishness and not caring at all.

### FACTS about plastic

There is a island of plastic in the Pacific Ocean which is 3x the size of France.  
1 truck of plastic is dumped into the sea every minute.  
microplastics are found everywhere, in water, food and even bloodstreams.  
Only 9.9% of plastic is recycled.  
Plastic takes 100 years to break down.  
More than 40% of plastic is used and then put in the bin.  
In 2050 there will be more plastic in the sea than fish.

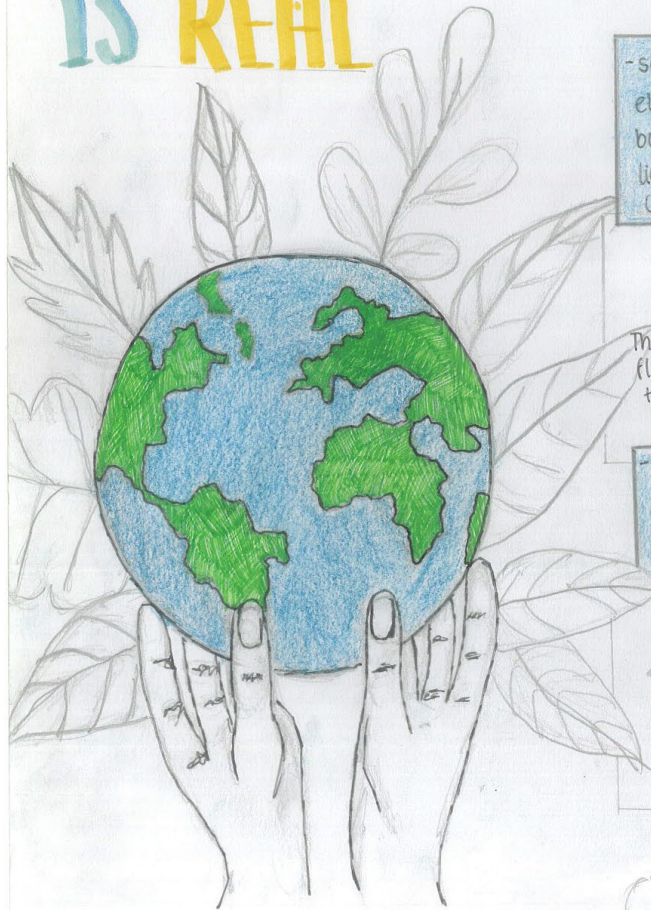
### SOLUTION

1. ban single use plastic
2. force governments to put recycling rules in place.

create Eco friendly alternatives to plastic

**SAVE OUR EARTH!**

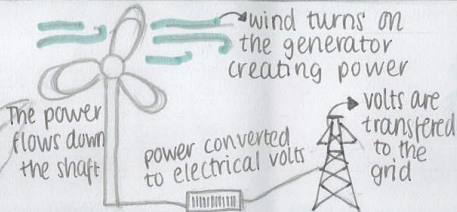
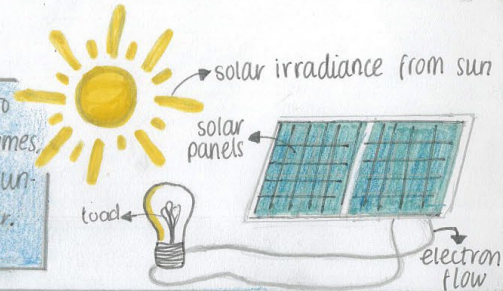
# CLIMATE CHANGE IS REAL



## SAVE THE EARTH NOW

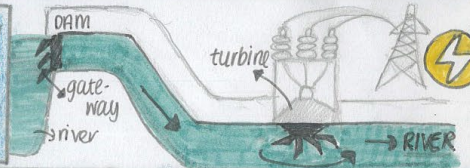
### steps we can take:

- solar energy: Photovoltaic (PV) panels convert sunlight into electricity, providing clean and renewable energy for homes, businesses, and industries. solar thermal systems use sunlight to heat water for space heating & domestic hot water. Current benefits; reduce emissions, improved air quality.



- Wind energy: wind turbines harness the kinetic energy of wind to generate electricity. They can be installed onshore or offshore in areas with sufficient wind resources.  
- Wind farms consist of multiple turbines connected to the electrical grid, providing a source of renewable energy.

- Hydroelectric Power: Hydroelectric power plants use flowing water, such as rivers or streams to generate electricity. They can range in size from small scale micro-hydro systems to large-scale dams and reservoirs.



- water conservation (rain water harvesting systems). These systems collect and store rainwater from rooftops for non-potable uses such as irrigation, toilet flushing, and outdoor cleaning. They help reduce demand for fresh water and alleviate pressure on municipal water supplies.

**DID YOU KNOW?** water efficient landscaping can save up to 50% of outside water use.

In summary, taking action to mitigate climate change is necessary for securing a sustainable future. Through implementation of green building practices, including the use of energy-efficient design strategies, we can reduce carbon emissions from the construction sector and minimise environmental impact. Together, these actions protect our planet's health and ensure a sustainable future for generations to come.



Save our planet!

# SUSTAINABLE

Fact: We lose approx 10 million hectares a year.

1/2 areas of land are cut down every second!!!

Brazil and Indonesia account for almost half of tropical deforestation.

trees don't deserve this!

Deforestation contributes about 4.8 million tonnes of carbon dioxide a year.

Fact: 95% of deforestation happens in the tropics.

Chocolate and biscuits are major contributors to deforestation.

Within 100 years its projected that earths rainforests will disappear.

deforestation

# SAVE THE WORLD!

Plant trees

Recycle

Don't throw rubbish

Save energy

Pick up litter

Don't chop down trees

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Your posters will be displayed at our SEEDS conference so that researchers can see your ideas!



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Create a poster on your idea, project, process or product for how we can live more sustainably.

Your poster should include text, images and where possible, facts and figures that support your ideas.

## Key Points to think about:

- What is your key idea?
- What aspect or issues of sustainability does your poster address?
- Why is it important to address that issue?
- What are the current and future benefits?

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Please send entries to  
[lsiconference@leedsbeckett.ac.uk](mailto:lsiconference@leedsbeckett.ac.uk)

by Friday 4<sup>th</sup> April 2024

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