

PLASTIC CHALLENGE

STEM ACTIVITY



INTRODUCTION:

1

Plastic sticks around in the environment for ages, threatening wildlife and spreading toxins. Plastic also contributes to global warming. Almost all plastics are made from chemicals that come from the production of planet-warming fuels (gas, oil and even coal).

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



2

YOUR CHALLENGE!

Imagine you are a designer, engineer or scientist. What ideas do you have to improve the sustainability of plastics?

REFLECTION QUESTIONS:

3

What surprised you about the challenge?
What was frustrating about the challenge?
How does this challenge apply to real life?
What are the similarities between the designs that worked well?
If you were to do this challenge again what would you do differently?

THINGS TO THINK ABOUT:

4

What is it made from?
Is it made from a renewable source? What can I make from it?
How long does it take to decompose? Can I recycle it?
What is 4R's (Rethink, Reduce, Reuse and Recycle)?
What is SDG Goal 12?

5

This challenge is designed to extend students' knowledge and understanding of plastics and plastic waste on a global scale

