

Science

Starter

Write down the names of as many of the inventions shown in the pictures below as you can.

Extension Task:
Choose which one is your favourite and explain why.

Can you imagine how to make a better world? For centuries, scientists have created amazing inventions that have changed people's lives all over the world.

The work of scientists is not over! There are still problems that need solving all around the world.

After completing the Starter (above), read below about 3 different inventions in the areas of health, sustainability and technology.

Task 1: Make a list of some of the challenges you think face the world today (see below for some examples to get you started).

Task 2: Choose the challenge you think is most important and explain why.

Task 3: Use the Activity Sheet provided to create an eye-catching, inspirational Challenge statement to put to scientists today. You will use adjectives, alliteration and anecdotes (or examples) to create your statement.

Explore Health

Use your speaking and listening skills to explore discoveries that have helped people around the world live healthy lives and be free from illness.



EVERYDAY IS A DREW DAY

Millions of people owe their lives to **Charles Richard Drew** who invented the first blood banks in **1941**

A **blood bank** is where blood is stored safely so it can be used for people who need surgery in hospital.



EXTENSION QUESTION: What do you think would happen if we didn't have blood banks?



Explore Sustainability

Use your speaking and listening skills to explore discoveries that have helped the world protect our environment, animals and people for the future.



PIERRES LOVE TO PEDAL

Pierre Michaux and **Pierre Lallemand** in **1864** made the first model of the modern-day **bicycle** with pedals.

People all over the world use the **bicycle** instead of transport that releases harmful gases such as **carbon dioxide** into the air.



EXTENSION QUESTION: What happens to the Earth when too much carbon dioxide is released?



Explore Technology

Use your speaking and listening skills to explore discoveries that have helped develop incredible technology modernizing the world in which we live.



SAFE STEPHANIE

Stephanie Kwolek a scientist interested in both chemistry and fashion textiles created **Kevlar** in **1965**.

Kevlar is a material stronger than steel which protects police officers and armed forces all over the world.



TOP FACT: Kevlar is used in bullet proof jackets, car tires, fire-proof clothing, walking boots, cut resistant gloves.



Create

Activity Sheet 2



Name: _____

In the box below, write the challenge that you have chosen as the most important issue that needs to be solved in the world right now.

EXAMPLE

People are using too many plastic bags so we need another material to use.

What type of issue is this?

- Health
 Sustainability
 Technology

YOUR CHALLENGE

What type of issue is this?

- Health
 Sustainability
 Technology



There are lots of different ways to excite and gain the interest of others in your writing. The aim of this task is to use your chosen challenge to create an eye-catching Challenge Statement that will encourage scientists to make change in the world.

So how can we do this?

Below are three examples of ways in which you can engage a reader in what you are thinking and feeling, this is known as persuasive writing.

Writing tool	Explanation	Example
Adjectives	Describing words.	Plastic bags can be colourful but they are not beautiful.
Alliteration	Alliteration is when words start with the same sound.	I prefer pretty plastic that can be re-used.
Anecdotes	An anecdote is a short story about a real person or event.	I once saw a turtle trapped in a plastic bag in the sea.

Have a go at writing your challenge as a CHALLENGE STATEMENT using one (or more) of the tools above. Remember practise makes perfect, so try some different ways to write your statement.

EXAMPLE

I challenge scientists to...
create a **beautiful** material that is **colourful** and can be broken down **naturally** in the environment which can be used instead of plastic bags, as I once **saw** a hedgehog trapped in a bag and it made me really sad.

What tools did you use?

- Adjectives
- Alliteration
- Anecdote

Attempt 1

YOUR CHALLENGE STATEMENT

I challenge scientists to...

What tools did you use?

- Adjectives
- Alliteration
- Alliteration

Attempt 2

YOUR CHALLENGE STATEMENT

I challenge scientists to...

What tools did you use?

- Adjectives
- Alliteration
- Alliteration

Attempt 3

YOUR CHALLENGE STATEMENT

I challenge scientists to...

What tools did you use?

- Adjectives
- Alliteration
- Alliteration

Extension Task:

Can you include any other persuasive writing tools in your Challenge Statement? Which ones did you use? Can you list and describe them below?

Writing tool

Explanation (how do they work?)

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