

UKS2 – Lesson Plan 1

How does science improve health, safety, and the environment?

Aim: To understand how science helps to make our lives healthier and safer.	Key Words: Health, safety, environment, innovation, technology	Preparation: <ul style="list-style-type: none">• Examples of scientific inventions (e.g., vaccines, recycling systems, safety devices)• Worksheet with prompts about health, safety, and environment• Chart paper and markers for group work
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Prior Learning: Basic knowledge of human health and environmental issues.

Warm-up:

Start with a class discussion about how science has improved their lives. Ask children to share examples, such as medical breakthroughs (vaccines, X-rays) or ways science has helped the environment (recycling, renewable energy).

Main Teach:

1. **Science in Everyday Life:** Explain how scientific advancements help keep us healthy (vaccines, medicine), safe (seat belts, fire alarms), and protect the environment (recycling, pollution control). Discuss how scientific research continues to find solutions to global issues.
2. **Inventions for a Safer World:** Show examples of inventions or discoveries that have had a big impact on health and safety. Explain how these innovations help to prevent illness, reduce accidents, and protect the environment.

Activity:

Group Project: Children work in small groups to research a scientific invention or discovery that has improved health, safety, or the environment (e.g., clean water systems, air pollution sensors, medical equipment). They create a presentation or poster about their chosen topic, focusing on how it helps improve people's lives.

Extension Challenge:

Invent for Safety: Ask children to think of an invention or technology that could improve health, safety, or the environment in the future. They write about their idea and draw a diagram of how it would work.

Plenary:

Gather the class and ask groups to present their findings. Discuss how science continues to create solutions for health, safety, and the environment. Ask the children what kind of inventions they think the world needs next.

ART	Design a poster promoting an invention that helps protect the environment or improves safety.
D.T.	Create a model of a new invention or device that could improve health, safety, or the environment. Use recycled materials for sustainability.