

LKS2 – Lesson Plan 1

How can science solve problems around the world?

Aim: To explore how science helps solve global challenges like pollution and disease.	Key Words: Problem-solving, pollution, disease, solutions, science	Preparation: <ul style="list-style-type: none">• Examples of scientific solutions (e.g., clean water filters, vaccines, pollution control)• Pictures or short videos of above• Worksheet with problem-solving prompts• Chart paper and markers
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Prior Learning: Basic understanding of problems like pollution and disease.

Warm-up:

Start with a discussion about problems the world faces, like pollution or sickness. Ask children if they know of any ways science has helped solve these problems (e.g., recycling, medicine). Show pictures or short videos of these scientific solutions.

Main Teach:

1. **Science as a Problem Solver:** Explain that scientists use their knowledge to find solutions to problems faced by people around the world. Discuss examples such as how science has helped reduce pollution, create clean water systems, or develop vaccines to stop diseases.
2. **Real-World Examples:** Show pictures or videos of scientific inventions that have solved problems. For example, explain how clean water filters help provide safe drinking water or how renewable energy reduces pollution.

Activity:

Group Problem-Solving Project: Children work in small groups to brainstorm a global problem they would like to solve (e.g., pollution, hunger, or disease). They come up with ideas for how science could help solve that problem, then create a poster to illustrate their idea and explain how it works.

Extension Challenge:

Future Scientist Challenge: Children design a future invention that could solve a problem the world is facing today. They draw it and write about how it would work to help people.

Plenary:

Ask each group to share their poster and explain the problem they wanted to solve and how science can help. Discuss how science will continue to play a role in solving problems in the future.

ART	Design a poster showing a scientific solution to a world problem, like pollution or disease.
Geography	Research different countries that face global challenges like water scarcity or pollution and learn about the scientific solutions being developed.