

Understanding the Physical World – Core Explorer 3 - Unit 11

Health and Disease

 **Sessions:** 6 sessions  **Subject:** Understanding the Physical World

TOPICS

- Pathogens
- Immune system

KNOWLEDGE

- Bacteria, viruses and fungi can cause disease.
- White blood cells attack invaders.
- Vaccines prepare immune memory.

SKILLS

- Explain difference between bacteria and virus.
- Model antibody lock and key with paper shapes.
- List hygiene steps to reduce spread.

INCLUSION (DIFFERENTIATION)

- Stretch: trace vaccine history timeline.
- Support: practice correct hand washing and time.

KEYWORDS

pathogen, immune, vaccine, cell, immune system

TEACHING IDEAS

Compare bacteria and virus using simple diagram labels — keep labels neat and point to the correct part.

Demonstrate proper hand washing and time 20 seconds.

Role-play antibody fitting antigen using paper shapes.

Observe a plant leaf safely with a magnifier and sketch what you see.

Place a cut flower in coloured water and record changes over 24 hours.

Keyword help:

Pathogen: a microorganism that causes disease.

Cell: the basic unit of life; like a tiny room that carries out jobs.

Immune system: the body's defence against disease.