

Exploring Human Body System

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Subjects: Sciences

Ages: 10-11

Ireland, Turkey



At the end of the lesson learners will be able to:

- **Identify** the four main body systems (skeletal, muscular, circulatory, nervous).
- **Describe** the basic function of each system.
- **Match** organs or structures (e.g., heart, brain, bones) to the correct system.
- **Explain** how at least two systems work together (e.g., muscles + bones for movement).

Standards

Irish Primary Science Curriculum (SESE – Science, 2023 Framework)

- Strand: Living Things – Explore the structure and function of human body systems.
- Strand Unit: Human Life – Recognize that the human body has systems which work together to keep us alive and healthy.

Turkish Science Curriculum (Fen Bilimleri, 5. sınıf)

- F.5.1.1. İnsan vücudundaki sistemlerin görevlerini ve önemini açıklar.
- F.5.1.2. Sistemlerin birbirleriyle ilişkisini kavrar.

Materials

- Human Body Systems Poster (skeletal, muscular, circulatory, nervous) Human Body System Information L...
- Flashcards with organs (heart, lungs, brain, muscles, bones)
- Whiteboard & markers
- Student worksheets (matching exercise)
- Optional: AR/MIXAP app with 3D body models

Steps

Introduction

Introduction (5 minutes)

- Start with a question: “What happens inside our body when we run fast?”
- Collect answers (heartbeat, breathing, muscles moving, brain thinking).
- Show the colourful **Human Body Systems poster** and explain: today we will explore four key systems.

Activities

Activity 1 – Body Systems Exploration (10 minutes)

- Show each system on the poster.
- Ask students: “What does this system do?”
- Brief teacher explanation (bones = support, muscles = movement, heart/blood = circulation, brain/nerves = control).

Activity 2 – Matching Game (15 minutes)

- Students work in small groups with flashcards (organs).
- Task: Place each organ under the correct body system.
- Challenge extension: Explain how two systems work together (e.g., muscles + bones).

Activity 3 – Mini Discussion (10 minutes)

- Class discussion: “Why do we need all these systems working together?”
- Connect to everyday examples (sports, studying, sleeping).

Evaluation

Evaluation (5 minutes)

- **Informal:** Teacher listens to group reasoning during matching.
- **Formal:** Quick exit ticket → Students answer:
 1. Name one system and its function.
 2. Which organ belongs to the nervous system?

Notes

Differentiation

- Support: Provide labeled diagrams for struggling students.
- Challenge: Ask advanced students to research and present another system (e.g., digestive or respiratory).

Homework / Follow-Up

- Draw and label your favourite body system in your copybook.
- Optional: Use an online anatomy simulator to explore 3D models.

Anticipated Problems

- Students may confuse organ placement (e.g., lungs vs. heart). → Use poster visuals for clarification.
- Limited devices for AR. → Pair students to share.