



WORKSHEET

Name:

Subject:

lesson topic: Cells, Tissues, and Organs – Introducing Animal-Free Science

Task: Match the terms with their definitions

Cell→ _____

Tissue→ _____

Organ→ _____

- A. Group of cells working together
- B. Smallest building block of life
- C. Group of tissues working together

Task: Fill in the blanks:

1. Scientists can grow _____ in labs from donated _____.
2. Groups of these can form _____ that can be tested safely instead of on animals

Task: Match the innovation to its use.

Skin model→ _____

Liver organoid → _____

Heart-on-a-chip → _____

- a) Testing if drugs affect heartbeat
- b) Checking if medicines damage the liver
- c) Testing cosmetics

Why might scientists prefer testing on lab-grown tissues?

What are the benefits to humans and animals?

Task: Write 2-3 sentences:

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Task: What do cells need to grow in the lab? (List at least three)

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