Name & Surname: _____ Class: _____ Date: _____

No Solo Heart

Proving the body works as a team

About 30 minutes Level ★★★☆☆

Your Body Is a Team

You are one living **organism** built from teams of **cells** that interact to keep you alive.

- Cell -> tissue -> organ -> organ system -> organism: higher levels are built from lower levels.
- Tissue means many similar cells working together for one job.
- Organ means several different tissues arranged to do a special job, like the stomach.
- Heart and lungs work together to deliver oxygen to cells and carry carbon dioxide back out.
- Muscle and bone work together to move the body, and digestion plus blood flow move nutrients.

TASK A

Build a chain from cell to organism. Each new word must link to the one before.

cell	→ because… _____	tissue because many similar cells make tissue	→ because… _____	
	→ because… _____		→ because… _____	

Key words

cell: smallest living unit that does life jobs

tissue: many similar cells working for one job

organ: body part of different tissues for a special job

organ system: group of organs doing major jobs together

interact: act on each other and work together

organism: one living being, like you

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Find the Parts

Find hidden words that name levels and teamwork.

Did you know?

Your **stomach** uses four tissue types at once, and most **organs** help more than one system!

TASK B

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Find 10 hidden words about cells and systems. Words go across or down.

C	L	F	O	I	L	H	W	I	O
I	U	K	X	M	O	S	R	N	R
T	N	G	Y	U	R	Y	G	T	G
C	G	W	G	S	G	S	O	E	A
C	S	I	E	C	A	T	B	R	N
J	D	K	N	L	N	E	H	A	A
C	A	C	S	E	I	M	E	C	A
E	G	U	N	V	S	F	A	T	U
L	L	F	V	I	M	R	R	V	D
L	T	I	S	S	U	E	T	D	O

- ☐ ORGANISM
- ☐ INTERACT
- ☐ TISSUE
- ☐ SYSTEM
- ☐ OXYGEN
- ☐ MUSCLE
- ☐ ORGAN
- ☐ HEART
- ☐ LUNGS
- ☐ CELL

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Prove No Solo

Test ideas with true or false and a sprint story.

TASK C

Example done for you

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Tick true or false. Use evidence about how systems interact.

Statement	True	False
The body is a **system** of interacting subsystems made of cell groups.	✓	
A **tissue** is many similar cells working together for one job.		
The **heart** can keep cells alive all by itself without the lungs.		
Muscle and skeletal **systems** act together to move the body.		
Each **organ** belongs to only one system and never helps another.		

TASK D

/2

Read the sprint story and explain the teamwork with evidence.

Two friends sprint to catch the bus. After 30 seconds both are **breathing** faster and feel their **hearts** pounding. A student says, My legs did all the work alone. Their partner says, Your lungs and heart helped too.

1. **What evidence from breathing and heartbeat shows two systems interacting?**
   The faster breathing and heartbeat show...

2. **Why could the leg muscles not keep sprinting without lungs and blood flow?**
   Muscles need...

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Choose Best Argument

Compare claims and show how your thinking changed.

TASK E

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Compare three claims. Pick the one with the best evidence of interaction.

Your class debates: Can the heart work all by itself? Pick the strongest argument to prove the teamwork.

Claim A: Heart works alone because it pumps

Advantage

Disadvantage

Claim B: Heart and lungs team up for oxygen

Advantage

Disadvantage

Claim C: Heart, lungs, and muscles depend on each other

Advantage

Disadvantage

Which is the most suitable? Justify your choice.

TASK F

Show how your idea about solo organs changed. Finish both sentences with evidence: I used to think ___ . Now I think ___ because ___ .

Did the heart work alone?

I used to think...

→

Now I think...

How did I do?

Circle a face for each line.

I can order cells, tissues, organs, systems, and organism.

I can use evidence to show systems interact.

I can explain why no part works alone.

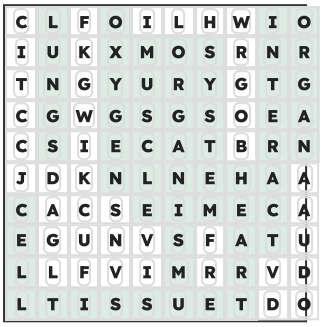
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Answer sheet: No Solo Heart

Task A

Answers will vary, e.g. cell → tissue because many similar cells make tissue → organ because different tissues make the stomach → organ system because organs work together

Task B



Words: ORGANISM, INTERACT, TISSUE, SYSTEM, OXYGEN, MUSCLE, ORGAN, HEART, LUNGS, CELL (see the grid)

Task C

1. True
2. True
3. False
4. True
5. False

Task D

1. Faster breathing brings in more oxygen and faster heartbeat moves oxygen-rich blood to leg muscles and carries carbon dioxide back out.
2. Muscles move by contraction but need oxygen delivery and waste removal, so without lungs and circulation they would run out of energy.

Task E

Claim A: Heart works alone because it pumps: + Names one true job of the heart. – Gives no evidence of teamwork and ignores the lungs.

Claim B: Heart and lungs team up for oxygen: + Uses evidence that faster breathing and faster pulse happen together. – Explains only two systems and leaves out muscles.

Claim C: Heart, lungs, and muscles depend on each other: + Links three systems with oxygen delivery and movement evidence. – Needs one linking sentence to explain why one cannot work alone.

Claim C is best because it gives two pieces of evidence that one job fails without the other, proving no subsystem works alone.

Task F

Answers will vary.

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