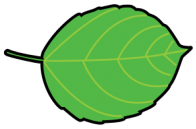
Name & Surname: _____ Class: _____ Date: _____

BUILT TO SURVIVE

How plant and animal parts help them live and grow



About 30 minutes Level ★★★☆☆

BUILT FOR LIFE

Living things have **structures** that help them stay alive, grow, and make offspring.



- Roots soak up water and leaves make food from air and light.
- Tiny tubes called **xylem** carry water up and **phloem** carry sugar down.
- Beaks and teeth grab food, fur, shells, and spots keep animals safe.
- Heart, lungs, stomach, and skeleton work together inside animals.
- Long legs and necks help animals move and feed.

TASK A

Weigh which cover helps survival best and list reasons.

Which outside cover helps an animal survive best?

.....	.....
.....	.....
.....	.....

Hard shell is best — **Thick fur is best**

What if...?

.....

.....

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SURVIVAL BY DESIGN

Invent a plant built to survive dry weather.

KEY WORDS

structure: a part with a special job

phloem: tubes that carry sugar down

evidence: clues that prove a claim

xylem: tubes that carry water up

claim: what you say is true

reproduction: making offspring or seeds

TASK B

Draw a tough plant that can live with little water.

Client: Museum garden team

Design a plant that can live with little water and still grow and make seeds

It must:

- [ ] **has roots to soak up water**
- [ ] **has leaves to make food**
- [ ] **shows how water moves up inside**

Sketch your idea

What you need

Test it: what happened?

How could you make it better?

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BETTER BODY PARTS

Upgrade weak parts and ask why they matter.

TASK C

/3

Swap each weak part for stronger survival help.

	Weak part		Strong part
1	 Droopy leaves that make little food	- - - →	
2	Draw it Short roots that miss water	- - - →	
3	 Soft body with no cover	- - - →	

TASK D

Ask why roots matter for growth and dig deeper.

A plant with no roots cannot grow.

Why? No water is taken in from soil

Why?

Why?

Why?

Why?

Why?

Why?

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WHAT CAUSES CHANGE

Connect causes to effects and build sentences.

TASK E

Link causes to effects for a wilting plant.

Causes		Effects
Roots cannot soak up water	→ **A plant wilts and stops growing** →	Leaves cannot make food

TASK F

/3

Build three true sentences about structures.

Roots	soak up	water for growth
Leaves	make	food from light
Heart	pumps	blood for energy
		your own idea

Write three sentences

Roots soak up water for growth.

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COMPARE AND MATCH

Spot differences and link parts to jobs.

TASK G

/6

Tell apart each pair of structures.

xylem vs **phloem**

The difference is...

shell vs **fur**

The difference is...

heart vs **stomach**

The difference is...

TASK H

Example done for you

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Match each structure to its job.

1 roots	◯ make food from air and light
2 leaves	◯ supports and protects body
3 beak	◯ grabs and cuts food
4 lungs	(1) soak up water and nutrients
5 skeleton	◯ pull in air to live

HOW DID I DO?

Circle a face for each line.

I can match structures to jobs for survival and growth. ☹ 😐 ☺

I can explain how inside parts work together. ☹ 😐 ☺

I can use evidence to argue that structures help living things. ☹ 😐 ☺

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Answer sheet: Built to Survive

Task A

Answers will vary, e.g. A shell covers the soft body so predators cannot hurt it.

Task B

Answers will vary.

Task C

1. Droopy leaves that make little food → Flat green leaves that make food
2. Short roots that miss water → Long roots that soak up water
3. Soft body with no cover → Hard shell that stops predators

Task D

Answers will vary, e.g. No water is taken in from soil; No nutrients reach the leaves

Task E

Causes: Roots cannot soak up water; Xylem tubes are blocked; Leaves get no light
Effects: Leaves cannot make food; Sugar cannot move to roots; Plant cannot make seeds

Task F

Answers will vary, e.g. Roots soak up water for growth. Leaves make food from light. Heart pumps blood for energy.

Task G

1. Xylem carries water up to leaves, phloem carries sugar down to other parts.
2. Both protect, but shell blocks predators and fur keeps heat in.
3. Heart pumps blood to move energy, stomach breaks down food for growth.

Task H

1. roots → soak up water and nutrients
2. leaves → make food from air and light
3. beak → grabs and cuts food
4. lungs → pull in air to live
5. skeleton → supports and protects body

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