

Living Things & Our Amazing Body

Science Explorers: Grade 3 & Grade 4

Flutter
& Grow!

Water plants

Botanical

✓
Observe!
Photosynthesis

✓
Life
Cycles

Crunch
Crunch

Caterpillar

✓
Support &
Protection

✓
Movement

Lambs:
Big Bone!

Skull:
Brain Box!

Ribs:
Heart Shield!

Spine:
Backbone!

Femur:
Big Bone!

Inside the Body!

X-Ray Vision

Mission Log
Date: October 24



LIVEWORKSHEETS

THE EXPLORER LABORATORY: Today's Mission Agenda



Simon Says... Move Your Body!!



Touch
your
head!

Bend your
knees!

Wave your
arms!

Jump
high!

What helped your
body move just now?



BONES!

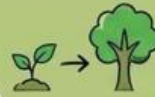
Are bones
living things?
Let's find out...

The Magic of Living Things!

Grow

Change size from babies to adults.

Grow



Move

Walk, crawl, hop, or turn toward the sun.



Breathe

Take in air (through noses, gills, or leaves).



Need Food

Eat plants, animals, or make their own food.



Reproduce

Have babies, lay eggs, or drop seeds.



Feel

Use senses to react to touch and light.



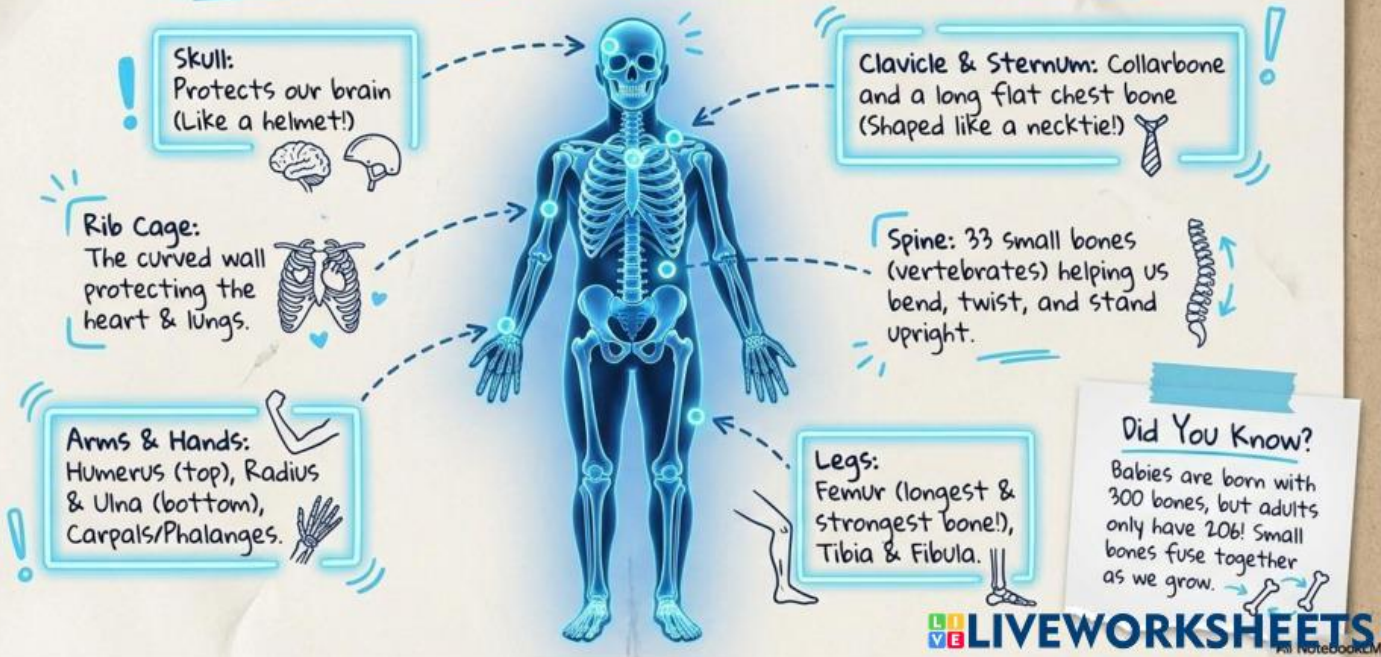
The Cycle of Life

Deforestation Warning:
Destroying natural habitats disturbs the delicate balance between living and non-living things on Earth.

Two Worlds: Plants vs. Animals !

 Plants 	 Animals 
✓ Producers (Make food using <u>chlorophyll</u> and sunlight). 	✓ Consumers (Herbivores, <u>Carnivores</u>, Omnivores). 
Tiny leaf openings called <u>stomata</u>. ✓ 	Nose, lungs, gills, or air holes. 
Slow & subtle (growing toward light). ✓ 	Visible (running, crawling, hopping for shelter/food). 
✓ Grow continuously throughout their life. ✓ 	Stop growing once they reach their <u>adult size</u>. 

Inside the Body: The Skeletal System



What Are Bones Made Of?



The Recipe:

- ✓ **Collagen:** A flexible protein framework.
- ✓ **Calcium:** Minerals (Calcium Carbonate/Phosphate) that harden the frame and add strength.

How to protect them:



Exercise: Run, dance, jump, and play outdoor sports. ✓



Calcium: Drink milk! (If your body lacks calcium, it steals it from your bones). !!



Safety First: Always wear a helmet when bike riding or skating to protect your skull. ✓ !

Mission Game: Nature Detectives!

Look around the room! Find the hidden picture cards.



TOP SECRET

Task:
Decide: Is it Living
or Non-Living?

Task: Explain: Why?
(Does it breathe? Does it grow?)



TOP SECRET

Task:
If the picture is an animal...
what bones help it move?

Example: Cat → Uses its
Skull, Spine, and Legs.





Detective Safety Rules



Walk, don't run during practical work and games.



Handle scissors safely (Keep them pointed down when walking).



Share materials nicely with your multigrade team!

Maker Space: Build & Sort!



Grade 3 - Sorting Wheel

Goal: Build a Living Things Sorting Wheel.

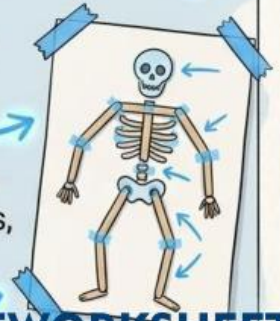
- ✓ 1. Cut out the wheel.
- ✓ 2. Sort and glue the pictures into "Living" or "Non-Living" sections.
- ✓ 3. Color your wheel!



Grade 4 - Skeleton Craft

Goal: Build a Popsicle Stick Skeleton.

- ✓ 1. Build a skeleton body using popsicle sticks and tape.
- ✓ 2. Label the key parts on your paper: Head, Ribs, Spine, Legs.



Detective Notes (Please copy in your books!)

Grade 3 Notes (Living Things)

- ✓ 1. Living things need food, breathe, grow, move, and reproduce. ←
- ✓ 2. Plants make their own food (Producers) using chlorophyll. 
- ✓ 3. Animals eat other living things (Consumers). 

Grade 4 Notes (The Skeleton)

- ✓ 1. The skeleton gives structure, allows movement, and protects organs. 
- ✓ 2. The Skull protects the brain; the Rib Cage protects the heart. 
- ✓ 3. The longest bone is the Femur. Bones need Calcium to stay strong. 

Share & Reflect

Gallery Walk (3 mins):

Walk around the room.

✓ Grade 3, share a plant fact!

✓ Grade 4, share a bone fact!

Reflection Question:?

→ What new thing did you learn today?

Closing Thought:

"I praise You because I am fearfully and wonderfully made."

— Psalm 139:14



God created plants, animals, and our amazing bodies with perfect detail.

LIVEWORKSHEETS

Take-Home Mission (Tugas)

Grade 3 Assignment: Nature Walk

✓ Find **3 Living Things** and **3 Non-Living Things** in your house or garden.

Write them down in your book and draw one of each!



Grade 4 Assignment: Body Map

✓ Draw a **picture** of yourself doing your **favorite sport or activity**.

✓ Label **5 major bones** you are using to do that sport (Example: Skull, Femur, Spine).





Bonus Level: Build the Skeleton Relay!



The Setup:

Teams line up. Mixed bone pieces are placed across the room.



The Rules:

Run, grab only one bone piece at a time, bring it back, and tape it to the A3 paper to build a full human body!

Teamwork Tasks:



Grade 3: Helps figure out the top-to-bottom order.



Grade 4: Must shout the name of the bone (Skull! Spine! Femur!) before taping it down!