

Lesson 21 — The Living World

Biology • ages 8–14 • 30 minutes • one screen, the free game, this page

At a Glance

- Game: The Homeschool Climb, Biology section (free, no login, plays in the browser) — read.globalsovereignuniversity.org/homeschool-climb.html#biology. Also on the Homeschool hub: globalsovereignuniversity.org/homeschool.
- Ages & time: Biology • ages 8–14 • 30 minutes • one screen, the free game, this page.
- Prep (2 min): read the Teaching Creed once, open the game to the Biology section, and find one living thing to look at: a houseplant, a pet, or a leaf from outside. That's the whole setup.

Why this lesson

Biology begins with a question every child can answer: is it alive? This lesson builds the answer into a way of seeing — every living thing is made of cells, grows, uses energy, responds and reproduces, and lives in a web of other living things. The climb teaches the core words; the plant or pet on the table makes them real.

What the learner will be able to do

- List the traits all living things share.
- Explain that every living thing is made of cells.
- Describe photosynthesis in one sentence.
- Trace a simple food chain and say what happens if one link disappears.

The 30-Minute Climb

How to read this: the gold box in each step is your lesson, word for word — run it exactly. The notes beneath are optional support. “The room/the group” = your family; “host” = you.

1 • The Hook (3 min)

“Is a fire alive? It grows, it eats, it moves and it makes more fire.” Let everyone argue before you answer.

Say it like this: let the argument run. A fire does many things living things do, but it has no cells and does not reproduce itself from a code. That is the line.

Watch for / if it stalls: switch to the plant on the table: what does it do that a rock never does?

2 • Play Together (12 min)

Climb the Biology section together. Read each teach card aloud, then vote. Each time a card names a trait of living things, check it against the plant or pet on the table.

Two rituals make it work: (1) read each teach card aloud before the question appears; (2) everyone votes before anyone clicks, so no one just follows the screen.

Watch for / if it stalls: on the food chain card, build one out loud from your own backyard: grass, rabbit, fox. Then ask what happens if the grass dies.

3 • The Talk (8 min)

1. So — is fire alive? What settles it? 2. Where does a plant get its food? 3. If every bee disappeared, who else would feel it?

You're not fishing for a right answer — you're listening for depth:

- Q1 — living things are built of cells and grow, use energy, respond and reproduce. Fire does some of that, but not all.
- Q2 — plants make their own food from sunlight, water and air, and give off the oxygen we breathe.
- Q3 — listen for the web: flowers, fruit, the animals that eat them, and us. Remove one part and the rest feel it.

4 • Solo Climb (5 min)

Answer the questions at your own pace.

Why solo: noticing living things is a solo habit. Solo questions check that each learner owns the words, not just the group.

5 • The Takeaway (2 min)

“Alive means cells, growth, energy, response and young — and every life is connected.” • Homework: draw one food chain from your own neighborhood, with at least three links, starting with a plant.

The badge moment: finishing all five steps earns the Bronze ring of this lesson's badge, The Naturalist. Mark it on the Passport now; the homework is how Silver and Gold are earned during the week.

The Teaching Creed

You are not the expert; the game is. Your job is to vote last, read aloud well, and ask “why?” one more time than feels natural. Celebrate wrong answers loudly — in here, wrong is where the lesson lives.

GENO — the GSU tutor you can actually TALK to, free, 24/7, understands 70+ languages (32 fully optimized) — can explain any answer a second way.

Adapt It & Measure It

Differentiation

- Younger (8–9): sort ten objects from around the house into alive, once alive and never alive.
- One child: take the climb outside and find one example of each card's idea in the yard or park.
- Large co-op: teams build the longest food chain they can from local plants and animals.
- Reluctant teen: start with germs. Why does washing your hands work? Cells and living things become personal.

Evidence of learning (no exam)

Look for three things — Tried (drew a food chain from their own neighborhood), Noticed (can list the traits of living things and use them to decide a hard case), Changed (looks at a plant or animal and explains what it needs to live). Those three words are the whole rubric, and they map onto the badge tiers below.

Gamify It — The Campus Climb

Every GSU lesson is one badge on the Climber's Passport, each earned at four depths — the GSU standard Bronze → Silver → Gold → Platinum.

LESSON 21 BADGE — The Naturalist · Bronze — The Climb: finished the 30-minute lesson, all five steps. · Silver — The Try: drew a three-link food chain from their own neighborhood. · Gold — The Proof: reached Gold on the Biology climb and explained photosynthesis in their own words. · Platinum — The Teacher: ran this lesson as host for someone else. The harvest of a teacher is teachers.

The book behind this lesson: Biology — How Life Works, by Dr. Gene A Constant — Chapter 2 (The Building Blocks of Life), Chapter 4 (Marvelous Micro-Worlds) and Chapter 5 (Nature's Web).

"Every person on Earth is born with an American spirit: an untamed yearning for a better tomorrow." — Dr. Gene A. Constant

The Foundation for Global Instruction · a 501(c)(3) nonprofit · Eugene, Oregon · globalsovereignuniversity.org · FREE TO KEEP · FREE TO SHARE