



BUILDING BRIDGES TO STEM ·
A GUIDE FOR SCHOOL & DISTRICT LEADERS

Science kids get to do. Curriculum teachers can actually run.

A hands-on PK–5 STEM curriculum built for real classrooms, proven in some of the largest school districts in the country.

20,000+
students since 2019

~50
schools

20+
delivery cycles

Inside: a 5-question checklist for vetting any STEM program, the full PK–5 camp catalogue, and a one-page pilot planner to bring to your discovery call.



Five questions worth asking every vendor. Including us.

You're weighing instructional value, staff capacity, and budget all at once. These are the questions that separate a program teachers use from one that sits on a shelf. Here's how we answer them.



Ask this	Why it matters	The Lab Rascals answer
1. Can a teacher without a science background run it on a Tuesday afternoon?	Programs fail at the teacher, not the purchase order.	Step-by-step 5E plans, an instructional video that models every lesson, and plain-language science background with scripted questions and sample answers. If you can read the plan, you can run the lab.
2. What will it cost after year one?	Kit refills quietly drain budgets.	No expensive kits. Every unit runs on affordable, everyday materials with a ready-made supply list and a one-click Amazon ordering link.
3. Will it survive district review?	Alignment claims need documentation.	Every lab maps to specific NGSS performance expectations and ISTE technology standards, with alignment documentation ready for district review.
4. Does it fit our schedule, or do we fit its?	Rigid pacing kills adoption.	Pacing guides for full-day, half-day, weekly (8-week), and workshop formats, in class, after school, or over the summer.
5. Has it worked at our scale, and do districts come back?	Renewals are the honest review.	Nearly 50 schools across DC, Chicago, Detroit, and Prince George's County, re-contracted across 20+ delivery cycles since 2019.

THE PROOF

District partnerships, proven at scale

We built our curriculum for schools serving kids who are too often counted out of STEM, and we've shown it works at district scale. These districts aren't a market segment for us. They're the reason we exist.

20,000+

Students reached since 2019

~50

Schools: 30 DCPS, 17 CPS, plus
Detroit & PG County

4

Districts served

20+

Delivery cycles, spring after
spring

Approved vendor with Los Angeles Unified School District
PK–5 full grade coverage



Districts don't just try Lab Rascals. They bring us back.

"Lab Rascals has brought consistency across our after-school programs, making STEM easy to implement and highly engaging for students. Educators appreciate its hands-on approach and seamless integration."

DISTRICT COORDINATOR

"I talked to my dad about how the seasons change and how it connects to the Earth's movement!"

2ND GRADER

WHAT'S INSIDE EVERY UNIT

Everything a teacher needs to run it. Low prep. High engagement.

01 Lesson plan

Step-by-step, built on the 5E model.

02 Instructional video

Models the lesson before the educator leads it.

03 Educator guide

The science in plain language, plus scripted questions with sample answers.

04 Hands-on lab

Real materials, real investigations.

05 Activity sheets

With answer keys included.

06 Assessments

Objective-based rubrics: Does Not Meet / Meets / Exceeds.

07 Pacing guide

Full-day, half-day, 8-week, and workshop formats.

08 Supply list

Household, affordable items, one-click Amazon link.

Plus an Educators Pack with every unit

Schedules, field-trip ideas, guest-host suggestions, and student engagement ideas beyond the labs.



SAMPLE LESSON FLOW

Every lesson follows the 5E instructional model

A rhythm that keeps students curious from the first minute to the last.

1
Engage

A question or surprising moment pulls students in.

2
Explore

Students test, build, and observe with real materials.

3
Explain

They put words to what they saw and connect it to the science.

4
Elaborate

They apply the idea in a new situation.

5
Evaluate

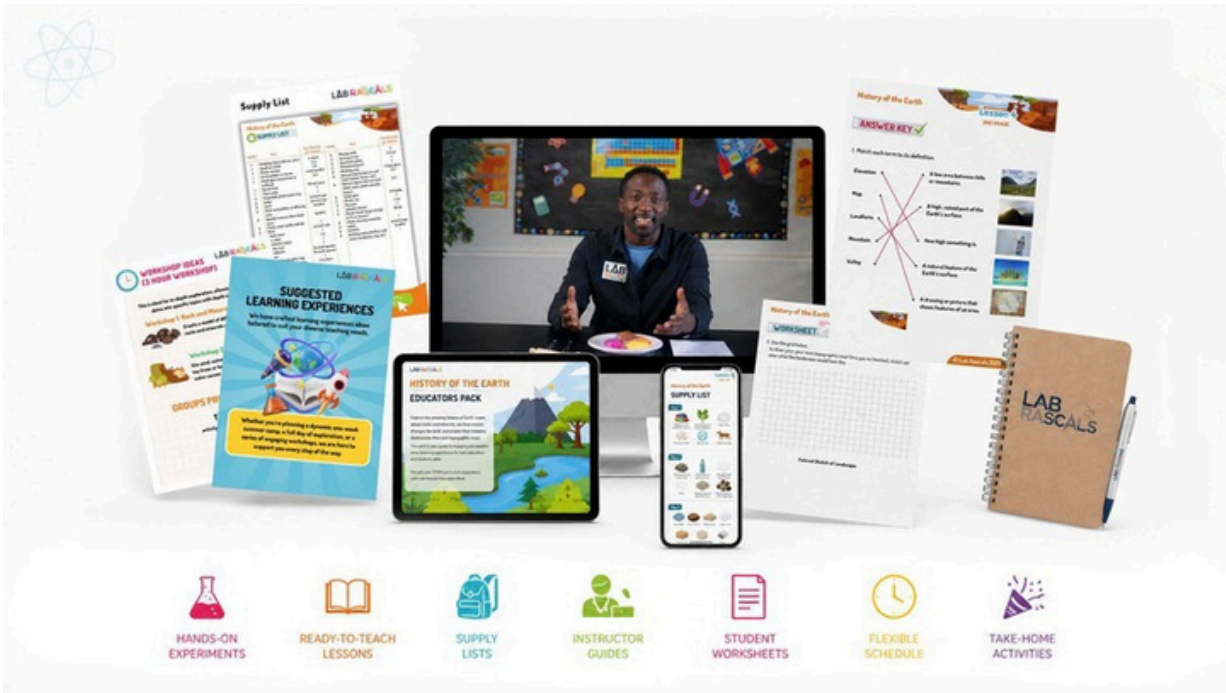
Objective-based rubrics show what each student understands.

SEE EXACTLY WHAT YOU'RE BUYING

Get a preview of the History of the Earth (Grade 2) sample lesson

Teacher guide · Slides · Lab instructions · Worksheet · Answer key · Assessment rubric

Request it at clublabrascals.com/preview-the-program. Hand it to a teacher and ask: could you run this next week?



THE CATALOGUE AT A GLANCE

18 camps. Every grade covered.

- Physical
- Life
- Earth
- Engineering

Pre-K	Motion Push it, roll it, race it down the ramp.	Ocean Waves, shells, and what lives underneath.	Properties of Matter Squishy, hard, wet, dry. Sorting the world by touch.	Simple Machines Ramps, levers, and pulleys. Big lifting for little hands.
Grade 1	Animals and Their Babies Matching who grows into what, and how.	Patterns in the Sky The sky keeps a schedule. Kids learn to read it.	Chemistry (I'm a Chemist!) Fizz it, mix it, measure it.	History of the Earth Rock layers, fossils, and deep time.
Grade 2				
Grade 3	Aerospace Engineering Design it. Launch it. Fix it. Launch it again.	Meteorology Build the tools, track the sky, call the forecast.		
Grade 4	Backyard Ecology The schoolyard becomes the lab.	Food Chemistry Kitchen reactions kids can see, smell, and (sometimes) taste.	Physics of Sound Vibrations kids can hear, feel, and finally see.	Geology Rocks that fizz, crystals that grow.
Grade 5	Space The solar system, scaled to fit the classroom.	Circuits If it lights up, they built it right.	Marine Biology Kids build the food web and figure out who eats whom.	Spy Camp Circuits, codes, fingerprints, and camouflage.

Don't see the exact unit you need? Our full PK–5 scope and sequence is already mapped. We develop custom curriculum for district partners, and partners get input on what we build next. It's part of how we work, not an exception.



Pre-K

First discoveries

4 camps



Physical

Motion

Push it, roll it, race it down the ramp.

Explores pushes and pulls while learning about how objects move. Experiments with friction, buoyancy, and transfers of energy.



Life

Ocean

Waves, shells, and what lives underneath.

Explores Earth's oceans with sensory activities, small-group investigations, and hands-on experiences.



Physical

Properties of Matter

Squishy, hard, wet, dry.

Explores aspects of matter such as properties, states, magnetism, and weight.



Engineering

Simple Machines

Big lifting for little hands.

Explores levers, wheels, pulleys, and inclined planes. Learners use these machines to explore and solve problems.



Grade 1

Grade 2

Patterns and reactions

4 camps



Life

Animals and Their Babies

Matching who grows into what, and figuring out how.

Explores zoology, animal physiology, and genetics through parents and offspring, behavioral adaptations, and how traits pass to young.



Earth

Patterns in the Sky

The sky keeps a schedule, and kids learn to read it.

Investigates the stars and constellations, moon phases, comets, and the sun.



Physical

I'm a Chemist!

Fizz it, mix it, measure it.

Observes chemical reactions, builds atoms and molecules, observes states of matter, and tests acids and bases.



Earth

History of the Earth

Rock layers, fossils, and deep time.

Models erosion, constructs topographic maps, and engineers resilient structures to withstand natural disasters.



Grade 3

Engineering the sky

2 camps



Engineering

Aerospace Engineering

Design it. Launch it. Fix it. Launch it again.

Investigates drag and lift, flight engineering challenges, and different types of aircraft.

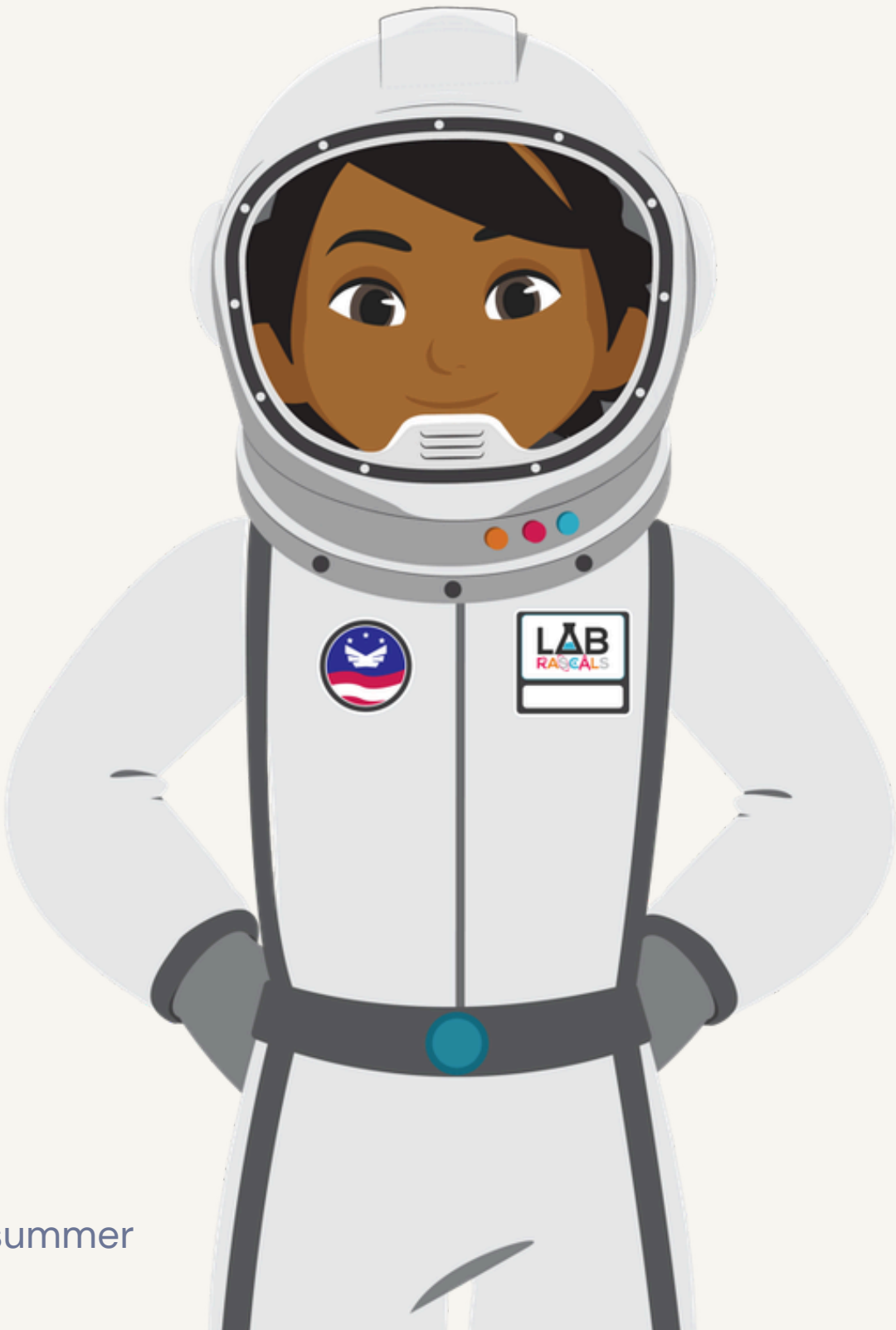


Earth

Meteorology

Build the tools, track the sky, call the forecast.

Explores wind, storms, and tornadoes while collecting data and engineering weather-safe solutions.



Grade 4

Systems, waves and matter

4 camps



Life

Backyard Ecology

The schoolyard becomes the lab.

Investigates animal adaptations, plant life cycles, and the interactions between plants and animals in backyard ecosystems.



Physical

Food Chemistry

Kitchen reactions kids can see, smell, and (sometimes) taste.

Studies types of molecules found in food and the chemistry behind baking and cooking.



Physical

Physics of Sound

Pluck it, drum it, make it hum.

Explores how waves travel, including wavelength, frequency, amplitude, and pitch.



Earth

Geology

Rocks that fizz, crystals that grow.

Models landforms, runs geological tests like core sampling, and designs ways to protect natural resources.

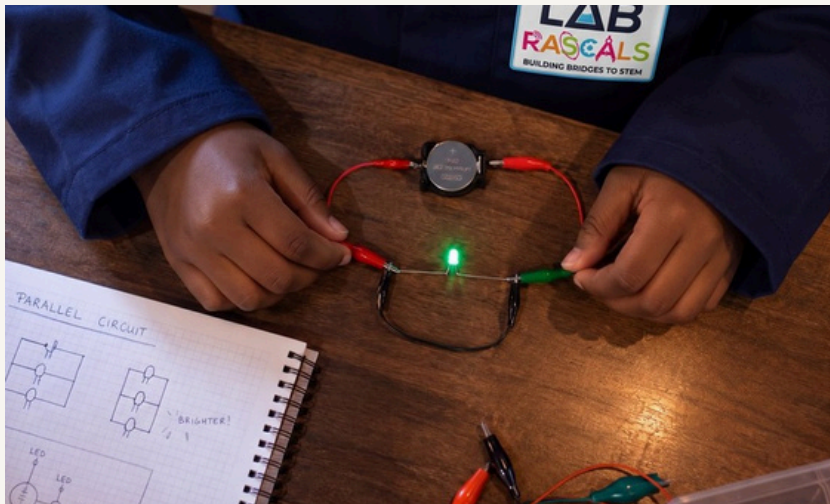
Every camp runs as a full-day, half-day, 8-week, or workshop program, in class, after school, or over the summer



Grade 5

Capstone science

4 camps



Physical

Circuits

If it lights up, they built it right.
Builds and tests circuits, creates conductivity-testing devices, and converts energy between forms.



Earth

Space

The solar system, scaled down to fit the classroom.
Explores moon phases, planet characteristics, and tools such as satellites and spacecraft.



Life

Marine Biology

Kids build the food web and figure out who eats whom.
Investigates ocean food chains, matter cycling in aquatic ecosystems, and human impacts on ocean health.

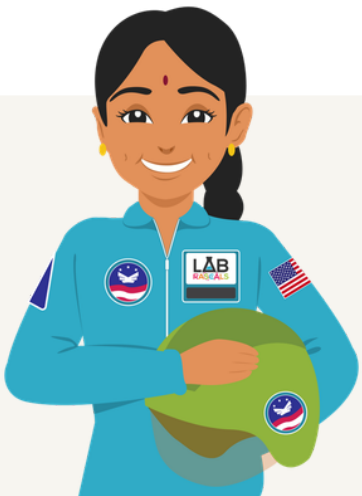


Engineering

Spy Camp

Circuits, codes, fingerprints, and camouflage.
Explores the STEM behind spy tools: circuits, satellites, fingerprints, codes, and camouflage, through real-world missions.

Every camp runs as a full-day, half-day, 8-week, or workshop program, in class, after school, or over the summer



FLEXIBLE USE CASES

Built to fit the way learning actually happens

After-school programs

In-class enrichment

Summer camps

Supplemental education

Unit studies

Gifted & advanced learning



PROFESSIONAL DEVELOPMENT

PD that gets teachers ready to run the lab, not just talk about it

Teachers do the investigations themselves, so they walk into class already knowing how each lesson feels.

Launch workshop

Teachers run 2–3 investigations start to finish, then debrief the instructional moves.

Implementation check-ins

Short virtual sessions during your first units, troubleshooting in real time.

Train-the-trainer

We build capacity inside your district so support continues after we leave.

Your team walks out with: the 5E flow walked through on your actual units, a live run of one or two labs, the why behind each phase, ready-to-use plans, scripts, and answer keys. PD is available bundled with a curriculum license or purchased separately.

YOUR PILOT PLANNER

Plan a pilot in 10 minutes. Bring it to your call.

Fill this in with your team. It's the same conversation we'll have on a discovery call, so you'll walk in with a scoped plan, not a sales pitch.

Which sites and grades would pilot first?

Where would it run?

- ☐ In-class ☐ After-school ☐ Summer ☐ Supplemental

Who will lead it, and what's their science comfort level?

What would success look like at the end of the pilot?

Which format fits your schedule?

- ☐ Full-day ☐ Half-day ☐ Weekly (8-week) ☐ Workshop

When do you want to launch?

- ☐ This school year ☐ Summer ☐ Next school year

What PD do they need?

- ☐ Launch workshop ☐ Check-ins ☐ Train-the-trainer

01 Discovery call

Your schools, schedule, and budget. We'll tell you honestly whether we're a fit.

02 Pilot

One program at one or a few sites. See how students and educators respond.

03 District rollout

Expand by grade, by site, or district-wide.



BUILT BY AN EDUCATOR, FOR EDUCATORS

Founder Tondalaya Takapu, a homeschool educator and retired U.S. Air Force veteran, spent her career learning how systems work, and where they fail people. Lab Rascals started as camps and clubs, then grew into a full PK–5 curriculum because schools kept asking how to bring that energy into their classrooms. The mission never changed: get real science into the hands of the kids who've been waiting for it.

Let's find the right fit for your schools.

Now booking discovery calls for the 2026–27 school year. Free, 30 minutes.

We reply in one business day

Usually the same day.
Always a real person.

Talk to a member of our team

Directly, not a sales team.

We scope honestly

If we're not right for your context, we'll tell you.

Book a discovery call clublabrascals.com/contact

Email hello@clublabrascals.com

