



WHY THIS WORKS

We don't teach 7 steps. We teach a way of thinking the kid keeps for life.

The steps are the *what*. The Builder's Brain is the *how* — a small, repeatable way of thinking that runs inside every step. A child should leave SPARK able to walk up to a problem they've **never seen before** and know exactly what to do first.

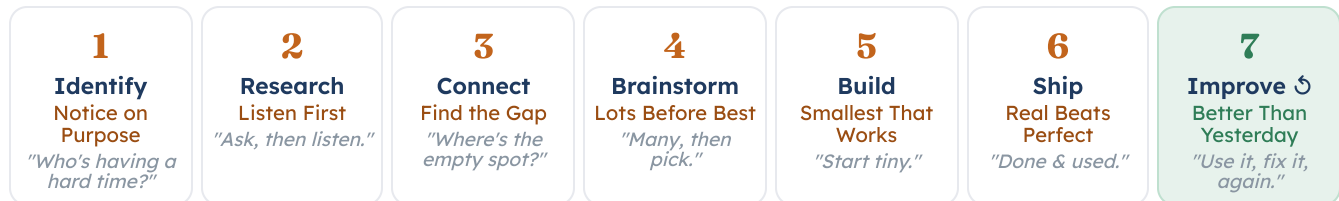
WHAT WE'RE FIXING

Answer the questions → a result appears. The thinking is invisible, and the finish line comes **too fast** to build a real skill.

THE UPGRADE

Every step runs a **thinking loop**. The result is **earned** — and the kid walks out with a **toolkit they reuse anywhere**.

THE METHOD — A LOOP OF 7, EACH STEP CARRIES ONE NAMED MOVE



↻ Step 7 loops back to 5 & 6 — a builder never just "finishes." They ship, learn from real use, and improve.

💡 **The one-sentence version for a principal:** SPARK doesn't just get a kid to make one app. It installs a **problem-solving operating system** — notice → understand → plan → build → share → improve — and points it **outward at helping people**. That is the AI-proof skill: the thinking *and* the empathy, not the typing.

The Four Pillars — where you look to find a problem worth solving.

A builder can't fix the right problem until they *find* it. So a kid sweeps four places, in order — start close, then look wider. Every SPARK build begins here. Get this right and the rest of the method has something real to work on.

👉 CLOSEST TO YOU ----- WIDEN OUT → 🌍 THE WHOLE COMMUNITY

<p>PILLAR 1 👉 Yourself "What's hard for me — and who else feels it?"</p> <ul style="list-style-type: none">• Practice is boring• I forget my homework• I can't find my stuff	<p>PILLAR 2 🏠 Your Home "What's hard for my family?"</p> <ul style="list-style-type: none">• Whose turn for chores?• Grandma can't read small text• We forget groceries	<p>PILLAR 3 🏫 Your School "What's hard for kids & teachers here?"</p> <ul style="list-style-type: none">• Nobody knows what clubs exist• New kids eat lunch alone• We lose track of reading minutes	<p>PILLAR 4 🌍 Your Community "What's hard for people around me?"</p> <ul style="list-style-type: none">• People miss the bus times• Seniors on the block feel lonely• No one knows about the food pantry
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How to run it — one pillar per lesson

<p>1 · Sweep One pillar per lesson. List every problem you notice — no judging, no fixing yet.</p>	<p>2 · Widen For each, ask: "who else has this?" The more people it hurts, the bigger the build.</p>	<p>3 · Pick After all four lessons, circle the ONE that helps the most people. That's your build.</p>
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WATCH IT WORK — HOW EMEKA (AGE 7) RAN THE FOUR PILLARS

<p>👉 SWEEP · YOURSELF "iReady practice is boring — every single time."</p>	<p>WIDEN · WHO ELSE? "My whole class hates it too." → now it's a school problem.</p>	<p>PICK Build practice that's fun and shows real progress — for everyone.</p>	<p>★ THE BUILD Star Math — live, and it measures real growth.</p>
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A problem she felt *herself* widened into one that helps her whole class — that's the Four Pillars doing their job. Find the **right problem** and the build almost designs itself. That's why the Pillars come first.

Two engines turn a worksheet into a workout.

Engine 1 — The Builder's Loop (runs inside every one of the 7 steps)

A kid never just *answers* a step. They run a tiny loop — the same loop a real builder, scientist, or coach runs. **First try is never the final answer.** This is the muscle.

Think it

What do I know? What am I trying to do?

Try it

One small step — a guess, a draft, a question.

Check it

Did it work? What does the evidence say?

Change it

Adjust from what you learned. Loop again.

🗣️ Say Why. After any decision the kid says: "I picked ___ because ___." Choosing *with a reason* is the habit that transfers to a math problem, a book report, or a disagreement.

🎯 Name your people. Alongside the loop the kid keeps asking: "Who does this help?" A build isn't done because it works — it's done when it **helps someone real.**

Engine 2 — The Improve Step (what makes the result earned, not instant)

Shipping isn't the finish line — it's the **first draft of the answer.** The kid puts v1 in front of the people it's meant to help, watches them use it, fixes what breaks, and ships again. **The learning lives in the gap between v1 and v2** — and so does the proof it actually helped.

Old — a straight line. Build → Ship → done. Nothing was tested against reality.

New — a loop. Build → Ship → watch it get used → fix → ship again. The kid earns v2 by reading reality and responding.

The most important skill we were missing: "When I'm Stuck."

Because stuck is a *step*, not a wall. Every other sheet assumes a kid produces an answer — but problem-solving is what you do when you *don't have one yet.*

1

Say it

"I'm stuck on ____."
Name it small.

2

Know it

"What do I already know?"

3

Shrink it

"Smallest piece I CAN do?"

4

Ask it

"Who or what could help?"

5

Try it

Do it → check → go again.

It turns "I can't" into "what's my next small move?"

The Thinking Toolkit.





Each week the kid earns one move and adds it to their toolkit. By the end they hold all seven — a real, named set of thinking moves that work **far beyond building**. The “use it anywhere” column is the proof it transfers.

Step	The move	One-word cue	Use it anywhere — not just to build
1 · Identify	Notice on Purpose	<i>“Who’s having a hard time?”</i>	Lunchroom: notice the kid sitting alone — and do something about it.
2 · Research	Listen First	<i>“Ask, then listen.”</i>	A fight with a friend: ask what’s wrong and really listen before fixing.
3 · Connect	Find the Gap	<i>“Where’s the empty spot?”</i>	A group project: find the job nobody is doing yet — and take it.
4 · Brainstorm	Lots Before Best	<i>“Many, then pick.”</i>	Choosing a topic: write 5 fast, then pick — don’t marry the first idea.
5 · Build	Smallest That Works	<i>“Start tiny.”</i>	A huge assignment: do the first small piece tonight, not the whole thing.
6 · Ship	Real Beats Perfect	<i>“Done & used.”</i>	A drawing or essay: finish a rough one — don’t freeze waiting for perfect.
7 · Improve ↻	Better Than Yesterday	<i>“Use it, fix it, again.”</i>	Free throws, reading speed: do it, see what missed, adjust, repeat.

 **How it lives in the room (zero extra lift):** each session names last week’s move out loud, the new move goes on the wall, and coaches catch the move in the wild — “that was *Lots Before Best*, nice” — so the language becomes how the class talks. The move is the curriculum; the app is just where they practice it.

The same Builder's Brain — solo or on a team.

SPARK trains an individual thinker — but real problems get solved together, so each class also works in small build teams of 3–4. Every team runs the **same 7-step loop** and the **same moves**; the only question is whether each student ships their own tool with the team’s support, or the team ships one tool together. Both are real SPARK builds.

 Researcher Listen First Runs interviews; brings back real quotes.	 Designer Lots Before Best Sketches what the tool looks like first.	 Builder Smallest That Works Directs the AI; assembles the first version.	 Tester Better Than Yesterday Puts it in front of real users; drives v2.
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Each role owns one Builder Move, and roles **rotate** so every student practices all four. Working together never dilutes the AI-proof core: the problem must still come from a student’s real attention — no model can notice the team’s problem for them.