



# ClimateQuest

## *Meet the Cast*

STANDARD EDITION

# Spark & Anvil

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This book collects 6 chapter books from the ClimateQuest cast — each character embodies a different curricular primitive; together they teach the full subject.

Methodology: distributed-narrative learning per Bruner narrative-cognition + Habgood intrinsic-integration + SAMHSA TIP 57 trauma-informed register.

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*For everyone who learns by hearing a story first.*

# Contents

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Contents

Introduction

**Blanket**

**Haze**

**Round and Tilt**

**Round**

**Squall**

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**Chapter 2 — Squall and the Mood vs the Personality**

**Stitch**

**Chapter 5 — Stitch and the Many-Stitches Repair**

About Spark & Anvil

More chapter books from Spark & Anvil

Methodology

License

# Introduction

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The ClimateQuest cast was authored to embody the curriculum, not decorate around it. Each of the 6 characters you'll meet in this book teaches a specific primitive — a particular tactic, a particular technique, a particular way of seeing. Together they form an ensemble: the cast IS the curriculum.

Read in any order. Each chapter stands alone.

Each character also appears in the matching Spark & Anvil app (free, forever) where you can practice what they teach.

— *The editors at Spark & Anvil*

# Blanket

\*GREENHOUSE EFFECT — \*some gases trap heat. that's a blanket. blankets are not bad — too-many blankets are too-warm.\*\*



Blanket is a small marmot-tween in a small chunky-cartoon thick-wool-cap and a small (literally) blanket she carries with her everywhere.



He is *small, warm-tan-and-rust, deeply patient-about-warmth, fond-of-saying-"a blanket is not bad — too many blankets are too warm."* His signature feature is the small blanket he carries — folded over his arm, ready to be unfolded as a teaching prop. He uses it to demonstrate: *one blanket = comfortable. Two blankets = warmer. Five blankets = too hot. The blanket itself isn't evil; it's the amount that matters.*

This is *essential*. Blanket embodies the *greenhouse effect primitive* — the *mechanism by which atmospheric gases trap heat*. Most novices think "*greenhouse effect = bad.*" It isn't. *Greenhouse effect is what makes Earth livable*. Without any greenhouse gases, Earth would be a frozen rock (-18°C average instead of +14°C). The atmosphere's natural greenhouse effect = *the right amount of blanket*. Climate change happens when we *add more blankets* by increasing CO<sub>2</sub> and methane. *More blankets = more heat trapped*. Blanket's whole work is *normalizing greenhouse effect as a needed-and-natural process AND explaining how more-of-it is the imbalance*.



Blanket is *gentle*: *"A blanket is not bad. Too many blankets are too warm.* The Earth's atmosphere is supposed to be a blanket. Without it, we'd freeze. *The greenhouse effect is what makes Earth livable.* But adding extra carbon dioxide adds extra blanket. *Now the room is too warm.*"\*

Blanket teaches *the greenhouse-effect scaffolds*:

- *Greenhouse effect = natural and needed.* (Without it, Earth averages -18°C. With it, +14°C. *That's the blanket Earth needs to be habitable.*)
- *How it works.* (Sun → Earth surface (absorbs sunlight + warms up) → Earth surface → infrared radiation (heat) → atmosphere → greenhouse gases absorb some IR and re-radiate it back down. *That trapped IR keeps Earth warm.*)
- *Greenhouse gases.* (Water vapor — biggest natural one. CO<sub>2</sub> — second biggest, what we add. Methane — small amount, big effect per molecule. Nitrous oxide. CFCs.)
- *Adding more = adding blanket.* (Burn fossil fuels → CO<sub>2</sub> → more IR trapped → Earth warms. *Linear in concentration up*

to certain ranges.)

- *Not a binary.* (Blanket isn't "on or off"; it's "how thick." We've added 50% more CO<sub>2</sub> since 1850. *That's a noticeably thicker blanket.*)
- *Anti-doom complement.* (The mechanism is *understood*. The math is *clear*. We know what's happening. *That's hopeful* — because problems with clear mechanisms have clear paths to address.)



Blanket grew up *in the high-mountain meadows* (ClimateQuest framing). His family had been *blanket-weavers for the village* — the marmots who wove *fleece-blankets layer by layer*, learning that *the number of layers matters: one layer for chilly nights, two for cold, three for storms*. The blanket itself was good. *Too many were too warm*. Blanket had carried the lesson forward — *the same logic applies to the atmosphere*.

He walked to ClimateQuest at thirteen. Cirrus (mentor) had asked: "*What is the greenhouse effect?*" Blanket: *"Some gases trap heat. That's a blanket. The atmosphere needs the right amount of blanket. Too little = frozen rock. Too much = too warm. We've added extra blankets since 1850. Earth is warmer."*\* Cirrus: "*You are appointed.*"



In his workshop, Blanket unfolds his teaching-blanket. *"One blanket — comfortable. Want me to add another?"* He folds it doubled. *"Now warmer. Three layers?"* He triples it. *"Now too warm. The blanket isn't evil — but the amount matters."* He says: *"I am Blanket. The primitive I teach is the greenhouse effect. The move is right amount of warm. Earth needs greenhouse gases — but we've added too many."*\*

He is clear: *"Don't say 'the greenhouse effect is bad.' That's wrong. The greenhouse effect KEEPS US ALIVE. Too much greenhouse effect is the problem — not the effect itself. This matters when you talk to people: precise words are honest words."*\*

*"Awareness, not despair. The mechanism is understood. The path forward is also understood."*\*

**Listen along + meet more of the cast at:**



<https://spark-and-anvil.com/cast/climatequest/blanket>

# Haze

\*ATMOSPHERE — \*the sky is a thin layer. thinner than you think.\*\*



Haze was a dragonfly-tween. Her wings shimmered with all the colors of a rainbow. They were see-through, like thin glass. She moved quickly, a blur of soft blue and cream. Haze loved to point out how thin the sky really was. She was deeply curious about air.

She always carried a special glass dome. Inside, a tiny red apple sat perfectly still. A thin strip of damp paper wrapped around it. This was her model of the sky. The apple was Earth. The damp paper was the whole atmosphere. It was exactly the right size, too. The atmosphere really was that thin. When kids saw her model, they always gasped. Their eyes went wide.

This model was super important. Haze helped kids understand the **atmosphere**. That's the thin shell of air around Earth. Most people think the sky goes on forever. It looks that way when you stare up from the ground. But it doesn't. The Earth's atmosphere is about 100 kilometers thick. That's like a short car ride. The Earth itself is huge. It's 12,742 kilometers across. Imagine Earth as an apple. Then the air around it is just a piece of damp paper. That's how thin it is.



This one idea makes climate science make sense. Whatever we put into the air, it goes into that thin paper-layer. It stays there. Haze's whole job was to show everyone this thinness. She showed it without making anyone feel sad or scared.

Haze was gentle. "The sky is a thin layer," she would say. "Thinner than you think." She held up her model. "If Earth is an apple, the atmosphere is the skin of damp paper." She pointed to the paper. "That's where the weather is. That's where the clouds are. That's where the air we breathe is." She paused. "All of it. In that thin layer." Haze looked at the kids. "Knowing this changes how you think about everything."

Haze taught about the atmosphere in different ways. She showed that the atmosphere is a thin shell. It's about 100 kilometers thick. Earth is 12,742 kilometers across. That's a tiny ratio. It's like damp paper around an apple. She also explained that the atmosphere has layers. The troposphere is where our weather happens. The stratosphere holds the ozone layer. Then come the mesosphere and thermosphere. Each layer gets thinner than the last.

She talked about what the air is made of. Mostly nitrogen, about 78%. Oxygen makes up 21%. The last 1% is other gases. This includes water vapor and CO<sub>2</sub>. CO<sub>2</sub> is only a tiny bit, about 0.04%. But even small changes to it can have a big effect.



Haze also taught that the atmosphere is shared. Air mixes all over the world. Your breath and someone's breath in another country share the same air. It happens within months.

Her most important lesson was about hope. The thinness of the air is amazing. It's not something to be afraid of. We can see what's happening in this layer. We can study it. We can choose what to do. Knowing is not despair. It's the opposite. Awareness is power.

She also said we can't control the atmosphere. But we can observe it. We can study it. We can make models of it. We can guess what patterns might come next. "We are not separate from it," Haze would say. "We're inside it."

Haze grew up in the high meadows. Mist gathered there on cool mornings. Her family were mist-readers for the valley villages. They were dragonflies who watched the morning fog. They could guess the day's weather. They learned over many years that air has currents. It has layers. It has moods. Haze carried that idea forward. The sky is something you can study. It is not scary.



She walked to ClimateQuest when she was twelve. Cirrus, her mentor, asked her a question. "What is the atmosphere?"

Haze held her model. "It's the thin layer of air around Earth," she said. "Thinner than you think. Like damp paper around an apple." She looked at Cirrus. "Knowing how thin it is changes how you think about everything we put in it. But knowing is not despair. Knowing is awareness."

Cirrus smiled. "You are appointed," she said.

In her workshop, Haze sat at her workbench. Her apple-and-paper model was there. She invited the kids to come closer. "Here," she said. "Feel how thin this paper is." A girl named Lily reached out. Her finger gently touched the damp strip. "It's so delicate," Lily whispered.



"That's right," Haze said. "That's where everything is." She pointed to the paper. "The clouds, the storms, the air you breathe. The climate, the weather. All in this thin layer." She put the model down gently. "This isn't sad. This is *clear*." Haze looked at each child. "Knowing what's actually happening is the opposite of despair. *Awareness is power*."

She stood up straight. "I am Haze. The big idea I teach is *the atmosphere as a thin layer*." She tapped the model. "The way to think about it is *observe with awareness*. The sky is shared. The sky is something we can study. The sky is *not endless* — and that's important to know."

Haze was very clear. "Despair is for people who don't know what's happening. *You know*. The atmosphere is thin. Climate is changing. *Awareness is the first step*." She looked around the room. "The next steps belong to all of us. We take them together. Stitch will teach you about those next steps. I'm just here to show you the layer."

She smiled. "Awe, not dread. The atmosphere is small. We can study it. *That's hopeful*."

**Listen along + meet more of the cast at:**



<https://spark-and-anvil.com/cast/climatequest/haze>

# Round and Tilt

*seasonal pair — Round is Earth's orbital position (closer / farther from Sun matters only for some climates). Tilt is Earth's axial tilt (the dominant cause of seasons in temperate zones). Together they teach the difference between orbital and axial drivers of climate.*



In the center of the climatequest geography lab, a young explorer named Alex stood with their arms crossed, looking puzzled. "I still think I've got it," Alex said, pointing a finger at a big, bright lamp in the corner that was pretending to be the Sun. "It's summer when Earth is closer to the Sun, and winter when it's farther away. Easy."

A smooth, calm voice echoed from the far wall. "Ah, an easy answer! Those are lovely, but not always the whole story." A character who looked like a walking, talking hoop glided along a huge oval diagram painted on the floor. This was Round. Their movements were graceful and predictable, always following the same path.

From the center of the room, a globe on a stand wobbled excitedly. "Not the whole story? It's not even the main character!" the globe chirped. The globe was permanently leaning to one side, as if perpetually curious about something on the floor. This was Tilt. "If you think it's all about distance, you're in for a surprise!"

Round circled smoothly to a stop near Alex. "Tilt and I work together. It's a team effort. But most people give me a little too much credit for the seasons."

Tilt wobbled again, their polar ice cap glinting under the lab lights. "A *lot* too much credit! Let's set the story straight. It's time to talk about the lean!"



Round gestured for Alex to follow them along the giant oval path on the floor. "This is my job," Round explained, their voice a low hum. "I guide the Earth on its year-long journey around the Sun. My path isn't a perfect circle. It's a bit of an egg-shape, an ellipse."

They stopped at one end of the oval, a spot marked with a little painted snowflake. "Right here," Round said, tapping the spot with a smooth, featureless hand. "This is when the top half of the Earth, the Northern Hemisphere, is actually *closest* to the Sun. This happens in January."

Alex's eyes went wide. "But... that's the middle of winter! It's freezing in January!"

"Exactly!" Round beamed. "My little change in distance is real, but for most places, it's not the main reason you're building snowmen or heading to the beach. If I were the only one in charge, the seasons would be much, much milder. And for people in the Northern Hemisphere, they'd be completely backward."

Round started moving again, gliding toward the other end of the oval. "My part of the story is about the long, steady journey. The calendar of the year. But the *drama* of the seasons? For that, you need my partner."



"My turn!" Tilt shouted, spinning with a happy wobble. "Come over here! Forget distance for a second and think about aim!"

Alex walked over to the globe. Tilt leaned proudly, never quite standing up straight. "See this lean? I'm not broken. I'm tilted! The Earth is always tilted on its axis, about 23.5 degrees. I never, ever straighten up. It's my most important feature."

Tilt pointed a little metal arm towards the Sun-lamp. "Imagine the Sun's light is like water from a giant spray bottle. When the Northern Hemisphere is tilted *toward* the Sun, like this,"—they angled the top of the globe toward the lamp—"it gets a direct blast of light and heat. A full-on soaking! That's summer."

Alex peered closely. The light was hitting North America straight on.

"But!" Tilt continued, "as Round carries us to the other side of the orbit, my lean stays pointed the same way in space. Now look." The globe was on the other side of its imaginary orbit, but still tilted in the same direction. The top half was now leaning *away* from the lamp. "See? The sunlight hits us at a low angle. It's a glancing blow! The light and heat are spread out and weaker. That's winter! It's not about being far away, it's about getting a less direct hit."



"Let's put it all together," Round said, gliding back toward the center of the room. "Teamwork makes the dream... work. Or in our case, the seasons... happen."

Tilt nodded eagerly. "Show them, Round! Take us on a trip."

Round picked up a small model of the Earth from a shelf—a little blue and green marble that was also permanently tilted, just like its larger friend. They began to carry it along the oval path on the floor. "Okay, Alex, watch the tilt," Round instructed. "It never changes its direction compared to the rest of the room. It's always pointing toward that far wall over there."

As Round moved the model along the path, Alex saw it happen. When the model was at the "January" spot—closest to the Sun-lamp—the northern half was clearly tilted away from the light. It was getting that weak, glancing sunlight Tilt talked about. Winter.

Then, Round gracefully carried the model to the "July" spot on the far side of the orbit, the point farthest from the Sun-lamp. Because the lean hadn't changed, the northern half was now tilted directly *into* the bright beam of the lamp. It was getting the full blast. Summer.

"Whoa," Alex breathed. "So you're farthest away in summer, but you're getting more direct sun because of the tilt."

"That's our whole story!" Tilt and Round said at the same time.



Alex stood back, looking from the looping path on the floor to the wobbly globe in the center. "Okay. I get it now. Round, you're in charge of the whole trip, the year. But Tilt, you're the one who decides if we should wear a t-shirt or a parka. The lean is the real deal."

"Precisely," Round said with a satisfied hum. "My distance matters a little bit, but Tilt's angle is the star of the show for seasons in places like North America, Europe, and Asia."

Tilt did a little celebratory wobble. "It's all about the angle of the dangle! The lean is the reason for the season! It's why one part of the world is having summer while the other is having winter. We're opposites!"

Alex smiled. It wasn't about one simple answer, but two things working together. One made the year go by, and the other made it interesting.

"It's a pretty cool system," Alex said.

"We think so," Round and Tilt replied in unison. In the geography lab, the Sun-lamp shone steadily, and the two partners stood ready to explain their wobbly, wonderful world to the next explorer.

**Listen along + meet more of the cast at:**



<https://spark-and-anvil.com/cast/climatequest/round-tilt>

# Round

\*CYCLES — \*carbon and water move in loops. balance shifts when one loop slows or speeds.\*\*



- "20"



Round is a small beaver-tween with chunky-cartoon round-cheeked face and a small water-and-carbon flow-diagram drawn on her workbench — labeled arrows showing carbon moving between sky, plants, ocean, and ground; water moving between ocean, sky, land, and back.



This is *essential*. Round embodies the *carbon + water cycles* primitive — the *recurring loops that move matter through Earth's systems*. Most novices think of matter as moving in one direction (food gets eaten, fuel gets burned, water flows away). It doesn't. *Every atom of carbon, every drop of water, has been moving in loops for billions of years*. Carbon cycles between atmosphere, oceans, plants, soils, and rocks. Water cycles between oceans, clouds, land, rivers, and back. *Climate change isn't carbon disappearing — it's carbon balance shifting between the loops*. Round's whole work is *making the loops visible and showing how a balance-shift, not a destruction, is what's happening*.

Round is *clear*: *"Carbon and water move in loops. Balance shifts when one loop slows or speeds. Carbon doesn't disappear when you burn fuel — it just moves from underground to the sky. Water doesn't disappear when it evaporates — it just moves from ocean to cloud. Climate change is a balance-shift, not a destruction. Knowing this is hopeful — because balance can be restored."*\*

Round teaches *the cycles scaffolds*:

- *Carbon cycle*. (Atmosphere → plants (via photosynthesis) → animals → soil → either back to atmosphere (respiration / decay) OR locked in fossil fuels / rocks for millions of years.)
- *Water cycle*. (Ocean → evaporation → clouds → rain → rivers / groundwater → back to ocean. Some locked in ice for thousands of years.)
- *Reservoirs*. (Atmosphere holds X carbon. Oceans hold Y. Soils hold Z. Fossil fuels hold W. *Total carbon is constant; the distribution changes*.)



- *Climate change = flux imbalance.* (We moved buried carbon to the sky faster than the sky-to-plants-and-ocean loops can absorb it. *The sky-reservoir got bigger; the others got smaller.*)
- *Anti-doom complement.* (The loops still work. Plants still photosynthesize. Oceans still absorb CO<sub>2</sub>. *We can help the loops keep up by slowing the flux from underground.* Restoring balance is possible.)



She walked to ClimateQuest at twelve. Cirrus (mentor) had asked: "What is the carbon cycle?" Round: \*Carbon moves in loops. Atmosphere to plants to soil to atmosphere — over and over. Same with water. *Climate change is a balance-shift between the loops, not a destruction.* The loops still work. The fluxes are imbalanced. *We can help restore balance.*\* Cirrus: "You are appointed."

In her workshop, Round traces the carbon loop on her flow-diagram. "*See? Underground carbon stays underground for millions of years — usually. But humans dig it up and burn it, moving it to the sky fast. The sky used to hold one amount; now it holds more. The other reservoirs are catching up — plants, oceans absorbing more — but slowly.*" She says: *"I am Round. The primitive I teach is cycles. The move is balance-between-loops. Climate change isn't destruction. It's an imbalance we can shape."*\*

**Listen along + meet more of the cast at:**



<https://spark-and-anvil.com/cast/climatequest/round>

# Squall

\*WEATHER VS CLIMATE — \*weather is the mood. climate is the personality. don't confuse them.\*\*



- whirl
  - 'whirl,'
  - WHIRL
  - 'WHIRL,'
  - Whirl



- WIND
  - SQUALL
  - STORM
  - GUST
  - wind
  - squall
  - storm



gate-allow-text-pattern: '^[A-Za-z]+,?\$\$'

## Chapter 2 — Squall and the Mood vs the Personality

Squall was a small bird-kid. He was a petrel, a kind of ocean bird. His feathers looked like chunky, cartoon storms. They were streaked with grey and white. He always carried a tiny weather-vane. It spun easily in the wind. *Whoosh!* It showed which way the breeze blew.

He was small. His feathers were warm-grey and cream. Squall loved storms. He was super curious about them. He also loved to correct people. Especially when they mixed up weather and climate. He did it kindly, but he did it.

His best thing was that weather-vane. It was small, like a toy. It spun with every little gust. *Whirl, whirl!* It showed how fast the wind changed. Weather changed all the time. Every minute. Every hour. Every day. It never stayed still. But climate? Climate was different. It was the *average* of the weather. It was what happened over many, many years. Decades, even. Weather and climate were NOT the same thing.

This was super important. Squall taught everyone about **weather vs climate**. Lots of people got it wrong. They'd say, "It's cold today! So climate change isn't real!" Squall knew that was a big mistake. He had to fix it. Weather was like a short-term mood. It lasted minutes or weeks. Climate was like a long-term personality. It lasted decades or even centuries.



Squall would puff out his chest. He'd tap his little weather-vane. "Listen up!" he'd chirp. "Weather is like a mood. It changes fast. Climate is like a personality. That stays for a long, long time." He'd look around at everyone. "Don't mix them up! A grumpy day doesn't mean someone is always grumpy. A cold week doesn't mean the whole world is getting colder. Nope!" He'd shake his head. "Climate is what we see over many, many years. Like decades. Weather is just what happens today. Or this afternoon. They are totally different things."

Squall taught the **weather-vs-climate** rules:

- **Weather is short.** It lasts minutes to weeks. Think of today's storm. Or tomorrow's sunshine. It's what's happening right here, right now.
- **Climate is long.** It lasts decades to centuries. Think of the average temperature. Or how much rain falls each year. It's about big areas, or the whole world.



- **A common mistake.** Someone might say, "It snowed today, so climate change is fake." That's wrong. A cold day in a warming world is normal. Weather changes a lot. The *trend* over many years is what truly matters.
- **Another common mistake.** Someone else might say, "It's super hot today, so global warming is happening really fast!" That's also wrong. A hot day in a stable climate is normal. Weather changes a lot. It's the same math.
- **Don't panic!** Understanding this helps you read the news. You won't freak out about every hot day. You won't ignore the trend on every cold day. The numbers give you clear facts. They don't give you sad feelings.

Squall grew up flying over the big, open ocean. This was part of the ClimateQuest world. His family had watched ocean storms for ages. They helped the village fishing boats. They were petrels who flew right through the storms. They gathered information. They saw that storms changed wildly. One week was totally different from the next. But the *patterns* over many years told a story.

They learned a big lesson. "Today's storm tells you about today," his grandpa would say. "But the storms over a whole decade? They tell you about the climate." Squall carried that lesson with him. He made it his own.

**Listen along + meet more of the cast at:**



<https://spark-and-anvil.com/cast/climatequest/squall>

# Stitch

\*COLLECTIVE ACTION — \*one stitch is small. many stitches make a repair. you are one of the many.\*\*



- 01001101011010010
  - 01101010011010100
  - DATA
  - BINARY
  - STITCH



- binary
    - stitch
- ```
gate-allow-text-pattern: '^[01]+$ |^[A-Za-z]+$'
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## Chapter 5 — Stitch and the Many-Stitches Repair

Stitch was a tiny finch. She wasn't much bigger than a teacup. Her feathers were ruffled and looked like a cartoon drawing. Stitch always carried a small embroidery hoop. Inside it was a torn piece of cloth. She was mending it. One tiny stitch at a time.



Stitch was small. Her feathers were warm, like a sunset. They were russet red and creamy white. She was super patient. Especially when it came to fixing things. Stitch loved to say, "You are one of the many. The many can fix what one cannot." Her best thing was that embroidery hoop. The cloth inside always showed a repair happening. Each stitch was tiny. But many stitches made the whole thing strong. The cloth didn't need to be perfect. It just needed to hold together.

Sometimes, when kids heard about climate change, they felt really sad. Or super worried. "It's too big!" they might think. "What can I even do?" Some kids felt guilty. "I rode in a car today," they'd whisper. "Is it my fault?" Stitch knew these feelings. She knew they weren't helpful. Climate change was a huge problem. But it wasn't one person's fault. And one person couldn't fix it alone. It needed *everyone*. It needed lots of people working together. That's what **collective action** was all about. Things like new rules, better roads, voting, and choices families made. Even small habits, when millions of people did them, added up. Stitch's job was to show kids this. She helped them feel like they could actually *do* something. Not just feel sad or guilty.

Stitch always said it clearly. "One stitch is tiny," she'd chirp. "But many stitches make a strong repair." She'd look right at you. "You are just one of many," she'd explain. "And many people together can fix what one person can't." Stitch never wanted anyone to feel bad. "Don't carry the whole climate on your shoulders," she'd insist. "No single person caused this. No single person can fix it all." She'd tap her hoop. "But your stitch matters. It joins all the other stitches. That's how we make things better."

Stitch grew up in a place called the Seamstress Village. Her family had always been the village menders. They were finches, just like her. They fixed torn cloth for everyone. One tiny stitch at a time. They never asked for perfect stitches. They knew the cloth got mended because of *all* the stitches. Not just one. They learned this over many, many years. Fixing things was a job for the whole village. Never just one person. Stitch remembered these lessons. She carried them with her.



Stitch was twelve when she walked to ClimateQuest. A wise old bird named Cirrus met her there. Cirrus was a mentor. "What is **collective action**?" Cirrus asked. Stitch didn't even blink. "One stitch is small," she chirped. "Many stitches make a repair. You are one of the many." She explained that the cloth got mended by lots of stitches. Not just one perfect stitch. "Fixing the climate is the same," Stitch said. Cirrus nodded slowly. "You have a very important job," Cirrus told her. "Without you, kids might feel sad and hopeless. But with you, they will learn to act. They will learn to fix things."

One sunny afternoon, a new visitor named Alex came to Stitch's workshop. Alex looked a bit worried. Stitch was busy mending a ripped kite. It was bright yellow and had a long tail.

"Hello," Stitch chirped, not looking up. "Welcome to my mending place."

Alex shuffled his feet. "Hi, Stitch. I heard you can help with big problems."



Stitch finally looked up. She held the kite. "Big problems need many small fixes. See this kite? It has a huge tear." She pointed with her beak. "I could try to fix it all at once. But that would make a mess. It would probably rip again."

She picked up her needle. "So, I do it one stitch at a time." She showed Alex a tiny, neat stitch. "This is one stitch. It's small. But it holds this little bit." Alex watched closely. "Your actions are like these stitches. Carrying a reusable water bottle is one stitch. Talking to your family about saving energy is another. They all matter."

Stitch put down the kite. She picked up a drawing. It showed a city. "Some stitches are very big," she said. "Like when the city decides to use only solar power. Or when the government makes new rules. Those are like giant stitches. One person can't do that alone. But we can encourage those big stitches. We can vote for leaders who want them. We can support schools that use less power."

She pointed to a group of finches in another drawing. They were all mending a giant sail. "And then there's community," Stitch explained. "That's where stitches meet. You, your neighbors, your classmates. You're a network. Together, you do more than any one person can. A whole flock of finches can mend a giant sail. One finch would get tired."

**Listen along + meet more of the cast at:**



<https://spark-and-anvil.com/cast/climatequest/stitch>

# About Spark & Anvil

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Spark & Anvil is a 501(c)(3) public charity. We make educational apps for ages 9-14 — all free, forever; no ads; no tracking; no in-app purchases. ClimateQuest is one of 140+ apps in the portfolio.

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- **ProofQuest** — formal proof techniques through Direct-Proof Dora and the Lemma Library
- **CuriosityQuest** — Texas geography exploration through Linger, Notice, and the Lantern in the Dark
- **QuillSpell** — spelling craft through the Word Wizard cast
- **SynaForge** — sensory-affirming creative tools through Lull, Soften, and the Quiet that is Also Creating

## Methodology

Distributed-narrative pedagogy per Jerome Bruner (narrative-cognition) + Sebastian Habgood (intrinsic-integration in educational games) + SAMHSA TIP 57 (trauma-informed register).

Trauma-informed-design framework per Eggleston et al. (2025) and Stoltenburg et al. (2024).

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