



## 1. The Spark Starter (All Phases)

### Purpose:

To ignite learner curiosity and critical thinking from the very first minute of the lesson. A spark question activates prior knowledge, connects new learning to the learner's world, and sets the emotional tone for engagement.

### Prompt:

Begin your lesson with one powerful, open-ended question that links today's topic to real life.

### Example Questions:

- "How does energy affect the way our homes work every day?"
- "Why do you think some plants survive in dry areas while others do not?"
- "What would happen if numbers didn't exist?"
- "How does teamwork in sport compare to teamwork in learning?"

### Teacher's Strategy:

1. Display the Spark: Write or project the question before learners enter the room.
2. Think-Pair-Share: Give learners 2 minutes to think, discuss in pairs, and share one insight.
3. Connect Back: As you teach, keep linking new content to the spark question so learners see its relevance.

### Variation by Phase:

- Foundation Phase: Use pictures or real objects. Ask: "What do you notice?" "What might happen next?"
- Intermediate Phase: Link to daily experiences (e.g., "Where do we use fractions at home?").
- Senior/FET Phase: Use real-world dilemmas or data trends to provoke analysis.
- Leadership Use: Principals can use a "Spark Question of the Week" in staff briefings to inspire reflective teaching.

### Extension Ideas:

- Let learners write their own spark question at the end of a lesson for tomorrow's class.
- Display a "Wall of Sparks" — rotate excellent learner questions weekly.
- Invite parents to contribute spark ideas through your school newsletter.

### Educator Tip:

The most effective sparks are *open, relevant, and brief*. They should start a conversation, not end it.



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Reflective Prompt for Teachers:

After the lesson, ask yourself:

“Did my spark connect emotionally and cognitively with my learners?”



## 2. Math Minds Warm-Up (Intermediate / Senior Phase)

### Purpose:

To activate learners' mathematical thinking, confidence, and mental agility at the start of every lesson. A well-designed warm-up sharpens recall, builds fluency, and sets a positive, low-stress tone for problem solving.

### Prompt:

Start each mathematics lesson with a short brain teaser or quick mental-maths challenge that links directly to the concept of the day.

### Example Questions:

- “If  $15 \div \frac{1}{2} = ?$ , what happens if we reverse the numbers?”
- “A square and a rectangle have the same perimeter — which one has the larger area?”
- “If 10% of a number is 25, what is the number?”
- “Without calculating, is  $\frac{3}{4} \times \frac{2}{3}$  greater or smaller than  $\frac{1}{2}$ ?”
- “How many factors does 36 have — and which two are consecutive numbers?”

### Teacher's Strategy:

1. Short & Focused (5 minutes max): Keep it energetic. One challenge per day is enough.
2. Connect to the Lesson: Choose warm-ups that reinforce prior knowledge leading into new content.
3. Encourage Multiple Methods: Ask learners to explain *how* they arrived at an answer — not just *what* it is.
4. Promote Collaboration: Let pairs or small groups discuss their reasoning aloud.
5. Celebrate Mistakes: Highlight creative thinking even when answers differ — it builds resilience and confidence.

### Variation by Phase:

- Foundation / Intermediate Phase: Use concrete examples and manipulatives (e.g., bottle caps, sticks, or number lines).
- Senior / FET Phase: Use abstract reasoning and data interpretation challenges.
- Cross-Disciplinary Idea: Connect to science or economics (e.g., “If petrol increases by 12%, what does that mean for a R20 purchase?”).



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### Leadership Tip:

Principals and mathematics heads should create a “5-Minute Maths Warm-Up Bank” by grade level:

- Grade 4–6: Basic operations, patterns, fractions.
  - Grade 7–9: Ratios, integers, percentages, geometry reasoning.
  - Grade 10–12: Algebraic manipulation, data interpretation, and problem-solving puzzles.
- Rotate the bank termly to ensure variety and progression.

### Extension Ideas:

- Encourage learners to create their own warm-ups for peer practice — an excellent form of assessment for learning.
- Use “Friday Maths Teasers” for team competitions — award points for creative reasoning, not only accuracy.
- Display a “Maths Brain Wall” where weekly winners post their favourite warm-up solution.

### Reflective Prompt for Teachers:

“Did my warm-up activate both accuracy and curiosity? Did learners see maths as a language they can speak confidently?”

### Educator Tip:

Use quick, low-preparation tools like mini whiteboards or flashcards so every learner participates. Consistency matters more than complexity — one powerful 5-minute challenge daily can transform maths culture in a school.



### 3. Vocabulary Vault (All Phases / All Subjects)

**Purpose:**

To intentionally build academic language, comprehension, and communication skills.

Strong vocabulary is the bridge between what learners know and what they can explain — the foundation of concept mastery, reading comprehension, and confident assessment responses.

**Prompt:**

Select three key words from today's lesson.

**Learners:**

1. Predict the meaning.
2. Define using their own words.
3. Use each word correctly in a sentence or short explanation.

**Example Activity:**

**Topic:** Electricity (Natural Sciences)

- Word 1: Circuit
- Word 2: Conductor
- Word 3: Insulator

Learners predict meanings, share examples (e.g., “metal = conductor”), and record correct definitions after discussion.

Extension — challenge them to use all three words in one sentence:

“A circuit allows electricity to flow through a conductor, but not through an insulator.”

**Teacher's Strategy:**

1. Choose Purposefully: Select vocabulary that unlocks understanding of the core concept, not just any new word.
2. Activate Prior Knowledge: Ask, “Where have you heard this word before?” or “What does it remind you of?”
3. Use Multiple Modes: Write, say, act, and draw the word to strengthen retention.
4. Revisit Frequently: Keep a visible “Word Vault Wall” — recycle key words in future lessons and tests.



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5. Assess for Understanding: During class, ask learners to explain the word in their own words rather than reciting definitions.

### Variation by Phase:

- Foundation Phase: Use pictures and real objects. Example: show “triangle,” “square,” “circle.” Ask learners to name, trace, and describe.
- Intermediate Phase: Add context sentences. Example: “In History, the word ‘colony’ means...”
- Senior Phase / FET: Introduce subject-specific academic vocabulary (e.g., “photosynthesis,” “legislation,” “hypotenuse”) and link to prefixes, roots, and etymology.
- Leadership Use: SMTs can lead a “Word of the Week” initiative across subjects to build a culture of academic language.

### Extension Ideas:

- Vocabulary Notebooks: Each learner keeps a personal mini-dictionary of new words.
- Peer Quizzes: Pairs quiz each other daily using yesterday’s words.
- Vocabulary Across the Curriculum: Teachers collaborate to identify overlapping words (e.g., “energy,” “pattern,” “system”).
- Digital Word Vault: Create a shared Google Sheet or WhatsApp thread where teachers and learners post weekly new words.

### Educator Tip:

A word is learned only when it is used repeatedly in context. Plan deliberate opportunities for learners to speak and write using their vault words within the same week.

### Reflective Prompt for Teachers:

“Did today’s vocabulary build conceptual clarity or just memorisation? How can I help learners use these words with confidence in writing and discussion?”



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### Leadership Tip:

Encourage teachers to design a “Top 100 Academic Words per Phase” list for your school, displayed in corridors and classrooms.

This not only standardises academic language but also boosts exam performance — learners meet familiar words across subjects.



## 4. Science Spark (Intermediate / Senior Phase)

### Purpose:

To ignite curiosity, inquiry, and a sense of discovery at the beginning of every Natural Science or Technology lesson. A “Science Spark” provokes learners to observe, wonder, predict, and explain—the four pillars of scientific reasoning.

### Prompt:

Present a brief, puzzling observation, demonstration, or question that links directly to the day’s concept. Ask learners to predict, discuss, and justify their ideas before revealing the explanation.

### Example Activities / Questions:

- *Show a balloon rubbing against hair.* Ask: “Why does it attract bits of paper?” → (Static electricity).
- *Display two ice cubes — one in salt, one in plain water.* Ask: “Why does one melt faster?” → (Heat transfer and freezing point depression).
- *Drop a crumpled paper ball and a flat sheet together.* Ask: “Which one falls first — and why?” → (Air resistance).
- *Show a candle under a jar.* Ask: “What happens to the flame after a while?” → (Oxygen depletion and combustion).

### Teacher’s Strategy:

1. **Keep It Brief** (≤ 5 minutes): One quick demo, image, or question that raises “why?” and “how?”
2. **Encourage Predictions:** Let learners discuss in pairs before you explain—prediction creates investment.
3. **Guide Observation:** Use phrases like “What do you notice?” instead of “What happened?”
4. **Connect to Concept:** Reveal the underlying principle only *after* learners have reasoned together.
5. **Reinforce Vocabulary:** Introduce one key term naturally during discussion (e.g., *evaporation, gravity*).

### Variation by Phase:

- **Foundation Phase:** Use sensory observations—sound, touch, smell. “What does it feel like when ice melts?”





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- Intermediate Phase: Link to everyday contexts—“Why do we see lightning before hearing thunder?”
- Senior Phase / FET: Use experimental data, short videos, or anomalies—“Why does pressure drop when altitude increases?”
- Leadership Use: Science HODs can institute a ‘Spark of the Week’ challenge—teachers share their best starter and reflection during staff meetings.

### Extension Ideas:

- Science Journal: Learners record predictions, results, and “aha!” moments each week.
- Home Challenge: Encourage learners to try a simple spark safely at home and explain it to parents.
- Cross-Curricular Link: Tie with mathematics (measurement), language (scientific explanation writing), or life skills (safety).
- School Showcase: Host a monthly “Mini Science Fair” where learners present their favourite Spark experiments.

### Educator Tip:

Every “spark” should end with a reflective bridge:

“How does today’s observation connect to what we’ll learn next?”

This helps transition smoothly from curiosity to conceptual understanding.

### Reflective Prompt for Teachers:

“Did my Science Spark encourage learners to ask their own questions?

Did they *see*, *wonder*, and *explain* before I taught the concept?”

### Leadership Tip:

Develop a shared ‘Science Spark Library’ on the school intranet or Google Drive where teachers upload short starter ideas, safety notes, and photos.

Rotating ownership among grades promotes collaboration and sustained innovation.



## 5. Reading Radar (Language and Literacy Focus)

### Purpose:

To help learners actively engage with text and develop deeper reading comprehension across all subjects.

The “Reading Radar” strategy transforms reading from *passive decoding* into *active sense-making*, where learners identify main ideas, infer meaning, and evaluate evidence.

### Prompt:

Before, during, or after reading a passage, ask learners to use their “reading radar” to scan for meaning clues, spot signal words, and detect key ideas.

Learners practise identifying:

- Main ideas – “What is this paragraph mostly about?”
- Supporting details – “Which facts support that idea?”
- Signal words – “However, therefore, because...”
- Questions – “What do I still wonder about?”

### Example Activity (Intermediate/Senior Phase):

#### Text Extract:

“Photosynthesis allows green plants to produce food using sunlight. Without photosynthesis, most life on Earth would not exist.”

#### Discussion Prompts:

1. What is the main idea?
2. What key term helps you understand the concept?
3. Why is this process important to life on Earth?
4. Can you explain this process in your own words?

#### Teacher’s Strategy:

1. Preview the Text: Ask learners to look at the title, headings, and visuals before reading.



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2. Model Thinking Aloud: Read a paragraph and verbalise your thought process (“I notice the word *therefore* — that signals a conclusion”).
3. Use Reading Frames: Provide sentence starters such as:
  - “The main idea is...”
  - “This shows that...”
  - “I was surprised that...”
4. Collaborative Annotation: In pairs, learners highlight keywords and write short comments or emojis in the margins.
5. Post-Reading Reflection: Summarise in one sentence what the text teaches — great for comprehension assessment.

### Variation by Phase:

- Foundation Phase: Use big books and picture walks — ask, “What do you see?” “What do you think will happen next?”
- Intermediate Phase: Focus on cause and effect, sequencing, and identifying who/what/where/why.
- Senior/FET Phase: Analyse author’s purpose, bias, tone, and evidence. Encourage text-to-world connections (e.g., “How does this relate to what’s happening in our community?”).
- Leadership Use: Create a “Reading Across the Curriculum” initiative — every teacher chooses one reading strategy to model weekly, regardless of subject.

### Extension Ideas:

- “Radar Journals” — learners record what they noticed, learned, and questioned from readings each week.
- Reading Corners: Display short, subject-related articles or infographics with reflection cards.
- Critical Reading Fridays: Discuss an article or newspaper cutting to practise identifying bias, evidence, and implications.
- Cross-Subject Integration: Encourage Maths or Science teachers to use “Reading Radar” with word problems and diagrams.



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### Educator Tip:

Always connect reading with purpose. Tell learners why they are reading a text — to explain, compare, solve, or reflect. Purpose transforms reading from a task into a skill for life.

### Reflective Prompt for Teachers:

“Did I model how skilled readers think while reading?  
Did my learners interact with the text, or did they just read it?”

### Leadership Tip:

Develop a “Whole-School Reading Culture Plan.”

- Display a “Quote of the Week” from a book or newspaper.
- Organise a “Principal Reads Aloud” day each term.
- Celebrate learners who demonstrate strong reading comprehension in assemblies.
- Encourage departments to keep short *reading check-ins* during meetings — “What’s one great text you used this week?”



## 6. History Hook (Social Sciences Focus)

### Purpose:

To spark historical curiosity and contextual understanding through short, thought-provoking prompts that connect past events to present realities.

A “History Hook” builds the habit of *asking questions first* — before learners receive information — so they actively reconstruct meaning like real historians and geographers.

### Prompt:

Begin with a mystery, photo, artefact, map, or quotation that connects to today’s topic.

### Ask:

“What do you notice? What do you think is happening here? What questions does this raise?”

Encourage learners to observe → infer → hypothesise → confirm — the sequence of historical thinking.

### Example Activities / Questions:

#### 1. History Example:

- Show an image of a dusty classroom with “1910” on the chalkboard. Ask:

“What might schooling have been like for children 100 years ago in South Africa?”

→ (Transition to *Education in Early 1900s*).

#### 2. Geography Example:

- Display two satellite images — one of Cape Town in 1990 and one in 2020.

“What changes can you see? What might have caused them?”

→ (Link to *Urbanisation and Environmental Change*).

#### 3. Quote Prompt:

“Those who cannot remember the past are condemned to repeat it.” – George Santayana

Ask learners: “Do you agree or disagree? Give a modern example.”

### Teacher’s Strategy:



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1. Visual First: Start with a strong image, artefact, or headline — learners remember pictures before text.
2. Time-Travel Language: Use questions like “Imagine you were there...” or “How would you have felt if...?”
3. Evidence Before Explanation: Allow observation and interpretation before revealing historical facts.
4. Connect Across Time: Link today’s topic with learners’ world — “How does this issue still affect our society?”
5. Debrief Meaningfully: Always end the hook with a reflective question that sets up the lesson aim.

### Variation by Phase:

- Foundation Phase: Use simple visuals — pictures of old toys, maps, or local scenes — and ask “What’s different today?”
- Intermediate Phase: Compare lifestyles — transport, food, homes — then introduce the timeline of change.
- Senior / FET Phase: Use political cartoons, extracts, or statistics. Train learners to analyse bias, perspective, and reliability of sources.
- Leadership Use: HODs can start departmental meetings with a *History Hook of the Week* — modelling inquiry-based teaching.

### Extension Ideas:

- Source Box: Create a class archive of printed photos, letters, or headlines for spontaneous hooks.
- Local History Trail: Learners research their community’s landmarks and present one as a hook.
- Map Detectives: Use historical and current maps side-by-side to infer land-use changes.
- Timeline Wall: After each hook, pin a new event card to a growing classroom timeline.
- Interdisciplinary Links: Combine with Mathematics (population data), Science (industrial revolution impacts), or Life Skills (heritage and identity).

### Educator Tip:



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Inquiry thrives when questions come before content.

Always allow “Wait Time 2” — a short pause after asking — to let learners formulate ideas rather than guessing what the teacher wants.

Reflective Prompt for Teachers:

“Did my History Hook lead learners to ask their own questions?

Did I teach them to think like historians — weighing evidence and perspective — rather than memorising dates?”

Leadership Tip:

Build a ‘Local Voices Archive’ where teachers record elders’ stories or community events. Use short clips in assemblies or lessons.

This strengthens cultural heritage, intergenerational respect, and real-world relevance of History and Geography.



## 7. The Math Moment (Mathematics and Problem-Solving Focus)

### Purpose:

To create a powerful five-minute “math-thinking moment” that strengthens reasoning, curiosity, and confidence before formal teaching begins.

A “Math Moment” encourages learners to notice patterns, make conjectures, and explain their reasoning, turning every lesson into an opportunity to think like mathematicians.

### Prompt:

Present a short, puzzling, or open-ended mathematical scenario that connects to the day’s concept.

Ask learners to:

“What do you notice? What do you wonder? How could you prove that?”

### Example Activities / Questions:

#### 1. Pattern Predictor

Show: 2, 4, 8, 16, ...

Ask: “What comes next — and why?”

→ Links to *exponents* or *doubling patterns*.

#### 2. Visual Math

Display a rectangle 6 cm × 4 cm and ask: “If I double the length and width, how does the area change?”

→ Promotes conceptual understanding of *scaling* and *area growth*.

#### 3. Real-World Problem

“Each desk costs R 350. A school orders 12 desks but receives a 10% discount. How much will they pay?”

→ Connects maths to practical school budgeting.

#### 4. Estimation Challenge

Hold up a jar of beans or buttons: “How many do you think are inside? What strategy could you use to estimate accurately?”

→ Encourages number sense and reasoning.

#### 5. Mathematical Riddle

“I’m a three-digit number. My tens digit is five more than my ones digit, and my hundreds digit is eight less than my tens digit. What am I?”

→ Develops logical thinking and pattern recognition.





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### Teacher's Strategy:

1. Connect to the Concept: Choose a “Math Moment” that acts as a gateway to the main lesson.
2. Keep It Short ( $\leq 5$  minutes): Use it to activate thinking, not replace the lesson.
3. Encourage Multiple Methods: Celebrate different ways of solving. Ask, “Can someone solve it a different way?”
4. Use Concrete Aids: Counters, rulers, coins, and everyday objects keep learners engaged.
5. Highlight Mathematical Language: Model terms like *sum*, *product*, *difference*, *estimate*, and *justify* through discussion.

### Variation by Phase:

- Foundation Phase: Use counting games, rhymes, and shape hunts. E.g., “Find 3 things in the classroom that are circles.”
- Intermediate Phase: Introduce estimation and simple fractions. E.g., “Which fraction is closer to 1 —  $\frac{3}{4}$  or  $\frac{2}{3}$ ?”
- Senior Phase / FET: Pose open-ended problems. E.g., “How many different ways can we get a sum of 20 using three numbers?”
- Leadership Use: Mathematics HODs can host a ‘*Math Moment Monday*’ for staff to share creative starters and strategies.

### Extension Ideas:

- Math Moment Wall: Post weekly challenges for learners to solve during break.
- Peer Explainers: After solving, a learner explains their thinking on the board in 1 minute.
- Math Across Subjects: Link to Science (experiments with data), Geography (maps and scale), and Economics (interest and percentage).
- Math Journals: Learners record each Math Moment, solution attempt, and reflection — great for assessment.

### Educator Tip:



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Every Math Moment should focus on thinking over answer-getting. Praise the reasoning process:

“I like how you explained *why* that works!” or “I see you used a diagram to prove your idea.”

Reflective Prompt for Teachers:

“Did my Math Moment allow every learner to participate and reason?

Did I ask follow-up questions that deepened thinking instead of just confirming answers?”

Leadership Tip:

Establish a school-wide “Mathematical Thinking Culture.”

- Display a “Problem of the Week” in the staffroom and corridors.
- Celebrate creative reasoning in assemblies.
- Encourage teachers to include “Math Moments” in lesson plans and lesson observations.



## 8. The Creative Canvas (Arts and Creative Expression Focus)

### Purpose:

To inspire learners to express understanding through creativity — painting, drama, poetry, rhythm, or movement — connecting cognitive learning with emotional and aesthetic development.

A “Creative Canvas” transforms the classroom into a studio for imagination, where learners *create to think* and *think to create*.

### Prompt:

Invite learners to represent the day’s concept artistically.

### Ask:

“If today’s topic were a song, colour, or picture — what would it look or sound like, and why?”

This question instantly opens the door for creative exploration and makes abstract ideas visible, audible, or tangible.

### Example Activities / Questions:

#### 1. Visual Interpretation (Art Integration)

- Subject: Natural Sciences
  - Prompt: “Draw or collage the ‘cycle of life’ using only shapes and colours — no words.”
  - Follow-up: “Explain what each colour or symbol represents.”  
→ Links to *Ecosystems, Growth, and Interdependence*.

#### 2. Drama Snapshot (Life Skills or History)

- Learners create a 30-second freeze-frame (tableau) of a key event, e.g. the moment Nelson Mandela is released.
  - Ask: “What emotions and values are shown in your pose?”  
→ Connects to *Democracy and Human Rights*.

#### 3. Poetic Reflection (Language Focus)

- After reading a text, challenge learners:

“Write a 4-line poem that captures the message or mood of the story.”

→ Encourages creative language use and emotional literacy.



### 4. Soundtrack to Learning (Music Integration)

- Ask: “If this topic had a soundtrack, what instruments or rhythm would fit?”
  - Example: For Electric Circuits — learners use body percussion to represent “open” and “closed” currents.  
→ Builds multisensory memory.

### 5. Design Challenge (STEAM Link)

- Prompt: “Design a logo or poster that summarises today’s lesson theme.”  
→ Develops communication, design, and summarisation skills.

### Teacher’s Strategy:

1. Choose one creative medium (art, drama, music, design) each week as a starter.
2. Allow learners to interpret concepts freely without fear of ‘right’ or ‘wrong’.
3. Encourage collaboration — pair visual learners with verbal or kinaesthetic peers.
4. Connect every art piece to learning outcomes (e.g. understanding photosynthesis, heritage, fractions).
5. Use the products as classroom display to celebrate creativity and understanding.

### Variation by Phase:

- Foundation Phase: Colour and shape songs, finger painting, role-play stories.
- Intermediate Phase: Mini-posters, skits, poems, simple musical compositions.
- Senior / FET Phase: Debate scripts, photographic essays, digital infographics or short videos.
- Leadership Use: Host a termly “Creative Canvas Exhibition” where teachers and learners showcase artistic learning links across subjects.

### Extension Ideas:

- “Gallery Walks” — learners post their art around the classroom and leave sticky-note feedback.



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- Cross-Curricular Themes — e.g. *Water* expressed in Science (phase changes), Geography (water cycle), and Art (colour and movement).
- Creative Reflection Journals — learners sketch or write what the day’s learning “looked like” to them.
- Digital Showcase — photograph artwork and share in school newsletter or website (crediting learners).

### Educator Tip:

Creativity is not extra — it is essential for deep learning.  
Encourage teachers to see art as a thinking tool, not a reward.

“When learners create, they own their understanding.”

### Reflective Prompt for Teachers:

“Did my Creative Canvas activity help learners *express* their understanding — not just repeat it?  
Did I honour different forms of intelligence and expression in my classroom?”

### Leadership Tip:

Establish a school-wide “Creativity Week” each term to showcase art-infused learning.  
Invite district officials, parents, and community artists to attend.  
Recognise innovative teachers who connect curriculum with creative practice.



## 9. The Science Challenge (Experiment and Inquiry Focus)

### Purpose:

To nurture learners' *scientific curiosity and investigative thinking* through quick, low-cost challenges that activate observation, prediction, and reasoning before the main lesson begins.

A “Science Challenge” promotes the idea that science is not only learned — it is *done*.

### Prompt:

Pose a short challenge that invites learners to predict → test → observe → explain.

### Ask:

“What do you think will happen if we change just one thing?”

Encourage learners to justify their predictions, observe carefully, and describe what they see using everyday language before formal scientific terms are introduced.

### Example Activities / Questions:

#### 1. Quick Reaction (Physics Focus)

- Drop two objects — one heavy, one light — from the same height.

Ask:

“Which one will hit the floor first — and why?”

→ Leads naturally into discussions on *gravity, air resistance, and fair testing*.

#### 2. Melting Mystery (Matter Focus)

- Place a piece of chocolate and a piece of ice on two plates.

Ask:

“Which will melt faster? Why?”

→ Reinforces *heat transfer and states of matter*.

#### 3. Balloon Rocket (Energy Focus)

- Run a string through a straw, tape a blown balloon to it, and release.

Ask:



“How does the air movement make the balloon rocket forward?”

→ Introduces *forces, motion, and Newton’s laws* in an engaging way.

#### 4. Plant Detective (Life Sciences Focus)

- Show two potted plants: one watered, one neglected.

Ask:

“What signs tell us which plant is healthy? What might be happening inside?”

→ Links to *photosynthesis and plant systems*.

#### 5. Local Science (Environmental Focus)

- Scoop two small samples of soil — one from a dry patch, one from a moist area.

Ask:

“What differences can you see, feel, or smell? What might explain them?”

→ Encourages *local inquiry* and environmental awareness.

#### Teacher’s Strategy:

1. Keep it Hands-On: Learners remember what they *do*, not what they’re told.
2. Predict First: Always ask for predictions *before* explaining — this builds scientific reasoning.
3. Observe Closely: Train learners to describe what they see, hear, or feel objectively.
4. Link to the Concept: Tie every Science Challenge to the day’s learning objective.
5. Conclude with Reflection: Ask, “What did we learn about how science works today?”

#### Variation by Phase:

- Foundation Phase: Use sensory exploration — mixing colours, observing melting, floating/sinking.
- Intermediate Phase: Simple experiments — light and shadow, circuits, magnets, dissolving.
- Senior / FET Phase: Data-driven tasks — rate of reaction, density, forces, hypothesis testing.
- Leadership Use: Science HODs can promote a “Science Starter of the Week” challenge shared across grades to encourage consistent inquiry-based teaching.



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### Extension Ideas:

- Science Journal: Each learner records hypothesis, observation, and conclusion in their journal.
- Home Inquiry: Assign safe “mini-investigations” learners can do using household materials.
- Science Challenge Wall: Display learner predictions and photos of experiments.
- Integration with Math: Learners measure, calculate, or graph their results.
- Community Science: Invite parents or district officials to see learners demonstrate experiments during *Science Day*.

### Educator Tip:

A good Science Challenge is simple, visual, and locally relevant.

Use everyday materials (bottles, paper, string, spoons, cups) — science doesn’t need expensive kits to be powerful.

“If learners can question, predict, and explain — they are already scientists.”

### Reflective Prompt for Teachers:

“Did my Science Challenge allow learners to *discover* before I explained?

Did I create space for curiosity, questioning, and evidence-based reasoning?”

### Leadership Tip:

Encourage teachers to record short *Science Challenge videos* for a shared staff resource bank.

Recognise innovative experiments that promote inquiry-based learning in classrooms with minimal resources.





## 10. The Thinking Bridge (Critical Thinking and Discussion Focus)

### Purpose:

To build a classroom culture where learners connect ideas, question assumptions, and reason with evidence.

A *Thinking Bridge* helps learners cross from surface knowledge → deep understanding → practical application, using structured talk, reflection, and reasoning.

### Prompt:

Present a short question, image, quote, or scenario that demands explanation or judgement rather than recall.

### Ask:

“What do you think — and why do you think so?”

This shifts the focus from *getting the right answer* to *developing a justified answer*.

### Example Activities / Questions:

#### 1. Visual Thinking Starter

Display a thought-provoking image (e.g., polluted river, overcrowded classroom).

### Ask:

“What do you notice? What might be the causes or consequences?”

→ Develops *observation, inference, and cause-effect reasoning*.

#### 2. Decision Debate

Pose a dilemma:

“Should learners have longer school days to improve performance?”

Learners take sides, support with evidence, then reflect on opposing views.

→ Builds *argumentation, empathy, and evaluation skills*.

#### 3. Concept Connection

Give two concepts (e.g., *Freedom* and *Responsibility*).

### Ask:

“How are these ideas connected in our school or community?”

→ Encourages *conceptual linking* and higher-order thinking.



### 4. Ranking Reasoning

Ask groups to rank items (e.g., “Rank these energy sources from most to least sustainable”).

→ Requires *comparison, justification, and value judgement*.

### 5. Critical Quote Challenge

Share a quotation such as:

“Education is not the filling of a pail but the lighting of a fire.” – W.B. Yeats

Ask: “What does this mean for us as learners and teachers today?”

→ Invites *interpretation, reflection, and synthesis*.

### Teacher’s Strategy:

1. Create a safe space where all voices are valued — establish discussion norms.
2. Use “thinking stems” like *I believe..., I noticed..., I wonder..., because...* to guide learners’ reasoning.
3. Encourage learners to support claims with evidence — facts, examples, or logic.
4. Use wait time — allow 5–10 seconds before inviting responses.
5. Summarise key ideas visibly on the board to model *metacognitive reflection*.

### Variation by Phase:

- Foundation Phase: Begin with picture talk, sorting games, “Which one doesn’t belong?” reasoning.
- Intermediate Phase: Introduce cause-and-effect maps, compare-and-contrast tables, and guided debates.
- Senior Phase / FET: Facilitate Socratic seminars, evidence-based essays, and critical case-study analysis.
- Leadership Use: Staff meetings start with a “Thinking Bridge Prompt” about pedagogy or ethics to cultivate reflective practice.

### Extension Ideas:

- Thinking Wall: Post weekly discussion prompts; learners add sticky-note responses.
- Question Corners: Groups rotate around four stations, each with a deep-thinking question.



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- Think-Pair-Share Plus: After pairs share, one learner summarises another group's idea.
- Argument Ladders: Each rung represents stronger reasoning — claim → evidence → counterargument → conclusion.
- Cross-Curricular Bridges: Connect critical thinking across subjects — e.g., ethical implications of technology (Science + Life Orientation).

### Educator Tip:

Critical thinking grows through *practice, not preaching*.

Ask learners “Why?” and “How do you know?” every day.

“Our goal isn't to give learners answers — it's to give them better questions.”

### Reflective Prompt for Teachers:

“Did my learners explain *why* they believe something, or just repeat facts?

Did I model how to think aloud, reason, and reconsider ideas?”

### Leadership Tip:

Establish a ‘Thinking Bridge Program’ in your school:

- Each teacher contributes one monthly reasoning prompt.
- Learners' best arguments are displayed or published.
- Hold termly “Young Thinkers Dialogues” with district officials or parents to celebrate reasoning skills.



## 11. The Leadership Lens (Educational Leadership and Values Focus)

### Purpose:

To help teachers and learners reflect on leadership as *service, influence, and integrity* — not position.

“The Leadership Lens” encourages everyone in the school community to see themselves as role-models capable of making ethical decisions, guiding others, and inspiring change.

### Prompt:

Present a scenario, quote, or challenge that invites reflection on leadership behaviour and school values.

### Ask:

“What would a true leader do in this situation — and why?”

Learners examine how decisions affect others, how to act with fairness, and how values shape leadership.

### Example Activities / Questions:

#### 1. The Role-Model Moment (Life Orientation / Assembly)

- Share a short story: “A learner notices another being teased for their accent.”

### Ask:

“What should a good leader do here?”

→ Builds *empathy, moral courage, and responsibility*.

#### 2. Decision in Action (Classroom Management / Ethics)

- Scenario: “Your team is losing a sports match. One player blames others.”

### Ask:

“How can a leader restore unity without blame?”

→ Strengthens *emotional intelligence and conflict resolution*.

#### 3. Quote Reflection

### Display:

“Leadership is not about titles, it’s about impact.” – Robin Sharma

### Ask:



“How can a teacher or learner make a positive impact today without holding a title?”

→ Promotes *initiative and accountability*.

#### 4. Leadership Timeline (History / Personal Development)

- Learners identify a historical or community leader (e.g., Nelson Mandela, Wangari Maathai).  
Ask:

“Which value or decision made them stand out as a leader?”

→ Encourages *value-based leadership connections*.

#### 5. Team Challenge (Practical Activity)

- Groups build a tower from paper and tape in 10 minutes.  
Afterwards, discuss:

“What leadership qualities helped — and what slowed the team down?”

→ Demonstrates *communication, trust, and collaboration*.

#### Teacher’s Strategy:

1. Use real-life stories to model ethical and servant leadership.
2. Highlight micro-leadership moments (a learner helping a peer, a teacher supporting a colleague).
3. Integrate leadership prompts into everyday subjects — e.g., “*What leadership lesson can we learn from this novel / experiment / event?*”
4. Encourage reflective journaling where learners record leadership insights.
5. Model humility and accountability — learners emulate what they see.

#### Variation by Phase:

- Foundation Phase: Simple “Helping Hands” chart — learners notice kind or helpful actions.
- Intermediate Phase: “Leader of the Week” reflections and role-plays on honesty, teamwork, perseverance.
- Senior / FET Phase: Leadership case studies, peer mentoring, ethical decision-making simulations.
- Leadership Use: Staff reflection sessions on servant leadership and emotional intelligence in schools.



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### Extension Ideas:

- Leadership Wall: Post learner or teacher quotes on values and leadership moments.
- Values Compass: Each class selects one core value (respect, honesty, perseverance) for the month.
- Peer Mentorship: Pair senior learners with juniors to model responsibility.
- Service Project: Choose a school or community improvement task and reflect on the process.
- Digital Leadership Diary: Teachers record one leadership insight per week on the staff portal.

### Educator Tip:

Leadership begins with small, consistent actions.

“The best leaders don’t wait for authority — they lead by example.”

Empower learners and teachers to influence positively wherever they are.

### Reflective Prompt for Teachers:

“Did I model the leadership values I want my learners to practise today?

How am I helping learners to see leadership as service, not status?”

### Leadership Tip:

Create a ‘Leadership Lens Friday’ across your school:

- Each week, one class or teacher shares a brief 5-minute reflection on leadership or ethics.
- Highlight acts of kindness, responsibility, and innovation.
- Recognise everyday heroes — cleaners, prefects, teachers, parents — who exemplify leadership through action.

“When leadership becomes everyone’s responsibility, schools become communities of excellence.”



## 12. The Reflection Ripple (Metacognition and Personal Growth Focus)

### Purpose:

To develop learners' *self-awareness as thinkers and learners* — helping them understand not just what they learn, but how and why they learn.

“The Reflection Ripple” encourages continuous self-evaluation, linking emotions, strategies, and outcomes. This habit of reflection builds resilience, focus, and lifelong learning skills across all subjects.

### Prompt:

Ask learners to pause and think about their thinking:

“What helped you learn best today — and what can you do differently next time?”

This creates a *reflection habit* that strengthens personal responsibility for learning.

### Example Activities / Questions:

#### 1. Learning Journal Snapshot

At the end of a lesson, ask:

“What new idea did you understand today? What still confuses you?”

→ Promotes *self-monitoring* and helps teachers plan targeted follow-up.

#### 2. Traffic Light Reflection

Use colour-coded cards or signals:

● = I understand

● = I'm unsure

● = I need help

→ Quick, visual way for learners to express confidence levels and guide peer/teacher support.

#### 3. Strategy Self-Check

Ask:

“What learning strategy worked for you today — reading, discussing, practising, or visualising?”

→ Builds awareness of *preferred learning styles and strategies*.

#### 4. Goal-Setting Ripple

Start each week with:



“What is one thing I want to get better at this week?”

End the week with:

“How do I know I improved?”

→ Reinforces *self-regulation* and *personal growth tracking*.

### 5. Reflection Circle

Learners sit in a circle and share one success and one challenge from the week.

→ Builds *trust, communication, and growth mindset*.

### Teacher’s Strategy:

1. Schedule *reflection time* at the end of every lesson or week — even 3 minutes is powerful.
2. Model reflection aloud: “*I noticed I lost your attention during this activity — next time, I’ll use a visual example.*”
3. Use reflection prompts before and after assessments to develop metacognitive awareness.
4. Encourage honesty — reflection is about growth, not grading.
5. Use learner reflections to differentiate future lessons and support progress.

### Variation by Phase:

- Foundation Phase: Use faces or emojis to show “how I felt learning today.”
- Intermediate Phase: Learners complete short “I learned... / I found hard... / I will try...” reflections.
- Senior / FET Phase: Learners write metacognitive summaries in journals, linking goals, strategies, and performance.
- Leadership Use: Teachers reflect on classroom data or lesson outcomes during professional learning communities (PLCs).

### Extension Ideas:

- Learning Portfolios: Learners collect evidence of progress and reflections over the term.
- Peer Reflection: After group work, learners discuss what teamwork strategies succeeded.
- Exit Tickets: Before leaving class, learners answer one reflective question on a sticky note.





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- Monthly “Growth Graphs”: Learners visually chart their confidence or progress over time.
- Mentorship Reflection: Pair learners to share progress and offer peer coaching feedback.

### Educator Tip:

Reflection is the bridge between experience and growth.

“Without reflection, learning remains an event — with reflection, it becomes transformation.”

Encourage learners to view mistakes as information, not failure.

Use reflection to make success visible and to celebrate small wins.

### Reflective Prompt for Teachers:

“Do I create regular opportunities for learners to think about their learning?

Do I model vulnerability and reflection myself?”

### Leadership Tip:

Launch a ‘Ripple of Reflection’ School Culture:

- Every class ends Fridays with a short reflection ritual.
- Teachers share one professional insight per week in staff meetings.
- Leadership teams model reflective decision-making by analysing successes and lessons learned.

“When reflection becomes routine, improvement becomes inevitable.”



## 13. The Collaboration Compass (Teamwork and Cooperative Learning Focus)

### Purpose:

To help teachers and learners navigate the principles of effective teamwork — *shared goals, trust, communication, and contribution*.

“The Collaboration Compass” ensures that every classroom becomes a micro-community where learners learn *with* and *from* each other, rather than in isolation.

This approach transforms lessons into teamwork laboratories that prepare learners for both professional and civic collaboration in the real world.

### Prompt:

### Ask learners:

“What makes a good team work well — and how can we practise that in this classroom today?”

Encourage them to set norms and reflect on how their individual actions influence group success.

### Example Activities / Questions:

#### 1. The Team Contract

- Learners create a simple group agreement before a project:

“We will listen actively, divide tasks fairly, and encourage each member.”

→ Fosters *ownership, accountability, and shared vision*.

#### 2. The Puzzle Challenge (All Phases)

- Give each group puzzle pieces or clues that only make sense when combined.  
→ Reinforces *interdependence and cooperation over competition*.

#### 3. The Circle of Strength (Reflection Tool)

- After teamwork, learners rate how well they listened, supported, and shared ideas.  
→ Builds *self-awareness and peer feedback habits*.

#### 4. The “Silent Strategy” Game (Communication Focus)



- Teams must complete a task (e.g., arranging words or sorting facts) without speaking. Afterwards, reflect:

“What did you notice about communication without words?”

→ Develops *non-verbal understanding and empathy*.

### 5. Collaborative Jigsaw

- Each learner becomes an expert on one sub-topic and teaches it to their group.  
→ Encourages *knowledge-sharing and leadership in learning*.

### Teacher’s Strategy:

1. Design lessons where *group success depends on individual accountability*.
2. Rotate group roles (leader, recorder, timekeeper, encourager) so every learner practises responsibility.
3. Observe group dynamics — praise collaboration, not just task completion.
4. Use formative assessment tools like *peer reviews* or *collaboration rubrics*.
5. Integrate short *team debriefs* after tasks: “What worked? What could we improve?”

### Variation by Phase:

- Foundation Phase: Partner games, role-plays, “helping hands” chart.
- Intermediate Phase: Group posters, problem-solving challenges, rotating helpers.
- Senior/FET Phase: Inquiry projects, peer-led study circles, group debates.
- Leadership Use: Teacher or SMT team-building exercises to strengthen school cohesion.

### Extension Ideas:

- Collaboration Corner: Post “Team of the Month” stories celebrating positive teamwork.
- Peer Coaching: Older learners or staff mentor juniors on group leadership skills.
- Cross-Subject Projects: Link teachers from different subjects to co-design interdisciplinary lessons.



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- Digital Collaboration: Use Google Docs or Padlet for shared creation and feedback.
- Community Teams: Partner with local NGOs or parents for service-learning projects.

### Educator Tip:

“Collaboration is not dividing the work — it’s multiplying the learning.”

Build classroom norms around respect, listening, and shared problem-solving.

Remind learners: *Everyone contributes to the team’s compass — pointing toward collective success.*

### Reflective Prompt for Teachers:

“Did I design my group task so that every learner had a role?

Did I recognise and celebrate positive collaboration publicly?”

### Leadership Tip:

Create a ‘Collaboration Compass Culture’ in your school:

- Schedule monthly *collaborative learning circles* for teachers to share best practices.
- Rotate staff-led workshops to encourage professional peer learning.
- Involve parents and community members in shared projects — showing learners the power of working together beyond school walls.

“A strong school is not built by strong individuals, but by individuals who make each other stronger.”



## 14. The Curiosity Catalyst (Inquiry and Questioning Focus)

### Purpose:

To ignite *wonder, questioning, and exploration* in the classroom.

“The Curiosity Catalyst” transforms lessons from teacher-led instruction into *learner-driven discovery*. It encourages learners to think like scientists, historians, artists, and innovators — asking, exploring, and reflecting on meaningful questions that connect classroom content to the world around them.

### Prompt:

Ask a provocative, open-ended question at the start of your lesson:

“What if...?” or “Why does this happen?” or “How could we prove this?”

Use questions that challenge assumptions, inspire discussion, and connect knowledge to real-life situations.

### Example Activities / Questions:

#### 1. The Wonder Wall

- Create a classroom display where learners post sticky notes with their own “*I wonder...*” questions.

Example: “I wonder how airplanes stay in the air?” or “I wonder why some plants grow faster than others?”

→ Builds *ownership of learning* and ongoing curiosity.

#### 2. The Question Quadrant

Divide the board into four squares:

- Close questions (facts)
- Open questions (opinions)
- Deep questions (analysis)
- Creative questions (what-if scenarios)  
→ Helps learners identify *types of questions* and their purpose in learning.

#### 3. The Mystery Bag (Foundation/Intermediate)

- Put a related object (e.g., magnet, rock, photo) in a bag. Learners ask yes/no questions to discover what it is.  
→ Trains *observational and inferential thinking*.



#### 4. The Socratic Circle (Senior/FET)

- Arrange learners in a circle. Present a stimulus (quote, photo, or case study).  
Ask:

“What does this mean?” → “Why do you think so?” → “Is there another way to look at it?”  
→ Develops *critical thinking and active listening*.

#### 5. The 3-2-1 Exit Ticket

At the end of a lesson, learners write:

- 3 things they learned
- 2 questions they still have
- 1 way they could find answers  
→ Encourages *continuous inquiry and reflection*.

#### Teacher’s Strategy:

1. Begin lessons with *provocative or problem-based questions* that invite exploration.
2. Replace “Do you understand?” with “What questions do you still have?”
3. Encourage learners to *generate and evaluate* their own questions.
4. Praise curiosity and thinking effort — not just right answers.
5. Model intellectual curiosity by asking your own authentic questions aloud.

#### Variation by Phase:

- Foundation Phase: Picture prompts, nature walks, “What do you notice?” questions.
- Intermediate Phase: Science challenges, cause-and-effect questions, “What would happen if...” games.
- Senior/FET Phase: Case studies, experiments, debates, inquiry projects.
- Leadership Use: Team inquiry into improving teaching practice (e.g., “What strategies best engage reluctant learners?”).



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### Extension Ideas:

- Question-of-the-Week Board: Each week, one big question drives discussions across subjects.
- Inquiry Journals: Learners record their wonderings, predictions, and discoveries.
- Curiosity Conferences: Learners present mini-investigations or experiments to peers.
- Cross-Curricular Inquiry: Link Science + Geography + Art under one guiding question (e.g., “How do humans shape their environment?”).
- Guest Curiosity Moments: Invite community experts to pose real-world questions.

### Educator Tip:

“Great teachers don’t just give answers — they teach learners how to find them.”

Curiosity is the heartbeat of lifelong learning.

Encourage learners to question with courage, explore with purpose, and reflect with humility.

### Reflective Prompt for Teachers:

“Did my lesson today make learners ask ‘why?’ or ‘how?’

Did I allow enough space for discovery before giving answers?”

### Leadership Tip:

Build a ‘Culture of Inquiry’ school-wide:

- Each staff meeting starts with a reflective question about teaching.
- Classrooms share “Question of the Month” boards.
- Teachers use “Inquiry Corners” displaying student investigations.

“When curiosity becomes culture, excellence becomes habit.”



## 15. The Resilience Reactor (Growth Mindset and Grit Focus)

### Purpose:

To cultivate *perseverance, optimism, and confidence* in learners so they view challenges as opportunities rather than obstacles.

“The Resilience Reactor” turns setbacks into sparks of strength — helping learners see effort as the true path to mastery, not a sign of weakness.

This approach fosters a *growth mindset culture* in classrooms and schools, where learners, teachers, and leaders learn to rise again — stronger, wiser, and more determined.

### Prompt:

### Ask learners:

“What do you do when something feels too hard — give up, ask for help, or try a new way?”

Use real examples to show that *mistakes are evidence of learning in progress*.

### Example Activities / Questions:

#### 1. The Grit Gallery

- Post stories or photos of famous people who failed before succeeding — inventors, scientists, athletes, and leaders.

Example: “Thomas Edison tested over 1 000 filaments before inventing the light bulb.”

→ Learners discuss: “*What does this teach us about persistence?*”

→ Builds *role-model inspiration* and *effort-reward understanding*.

#### 2. The “Try Again Ticket”

- Give learners a small card they can use when they want to retry an activity or assessment.  
→ Encourages *ownership of learning* and *safe failure spaces*.

#### 3. The Effort Meter

- Learners rate their effort on a 1–5 scale and describe one action they can take to improve it next time.  
→ Reinforces *reflection on effort, not just results*.

#### 4. The Challenge Ladder





- Create a wall chart: each rung represents a small step toward mastering a skill. Learners move their names upward as they improve.  
→ Visualises *progress over perfection*.

### 5. Resilience Role Play

- In pairs, learners act out two scenes:
  1. A learner gives up.
  2. A learner persists and asks for help.  
Afterwards, discuss how attitudes affected outcomes.  
→ Builds *emotional awareness and solution-focused thinking*.

### Teacher's Strategy:

1. Use the language of “*not yet*” instead of “wrong.”

“You haven’t mastered it yet — keep going.”

2. Celebrate effort and strategy as much as accuracy.
3. Share your own learning struggles as examples.
4. Design activities with *increasing difficulty* to stretch persistence.
5. Use classroom posters with resilience quotes and affirmations.

### Variation by Phase:

- Foundation Phase: Stories of animals or characters who kept trying (e.g., “The Little Engine That Could”).
- Intermediate Phase: “My Best Effort Moments” journal entries after each project.
- Senior/FET Phase: Reflection essays on overcoming academic or personal setbacks.
- Leadership Use: Coaching sessions where teachers reflect on how they responded to professional challenges.

### Extension Ideas:



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- Resilience Board: Display learner quotes and photos showing perseverance.
- Growth Mindset Challenges: Weekly challenges like “*Learn something new that scares you.*”
- Peer Mentorship: Pair resilient learners with those needing motivation.
- Resilience Week: Invite guest speakers who overcame adversity.
- Reflection Podcast: Record learners sharing their “bounce-back” stories.

### Educator Tip:

“A resilient learner is not one who never falls — it’s one who always gets back up.”

Reframe setbacks as *temporary feedback*, not failure.

Encourage learners to replace “*I can’t do this*” with “*I can’t do this yet.*”

### Reflective Prompt for Teachers:

“Do I celebrate persistence as much as achievement?

Do I make it safe for learners to fail, reflect, and retry?”

### Leadership Tip:

Develop a ‘Resilience Reactor Culture’ in your school:

- Begin assemblies with *stories of perseverance* from staff or learners.
- Recognise *effort awards* alongside academic awards.
- Hold “Failure Fairs” where learners share what they learned from mistakes.
- Include resilience goals in performance conversations with teachers.

“Strong schools are not those without problems — they are those that grow through them.”