INTEGRATED LITERACY

A braided model of why broad subject learning matters in the formative years, before early specialisation, extending Scarborough's Reading Rope into a cross-domain account of meaning-making. Strands converge toward fluency, flexibility, and transfer, while metacognition coordinates thinking across disciplinary, modal, and cognitive levels.

SYMBOL KEY

- Discipline / domain
- Artistic / aesthetic
- Social / collaborative
- Normative / evaluative
- Metacognitive control
- Modality / representation
- Cognitive process
- Communicative practice
- Embodied / sensorimotor

MATHEMATICS & FORMAL SYSTEMS

- Procedural Reasoning: Following and executing ordered steps.
- Abstract Reasoning: Manipulating symbols and structures.
- Quantitative Reasoning: Interpreting magnitude, proportion, and scale.
- Logical-Deductive Reasoning: Deriving conclusions from premises.

SCIENCES

- Epistemic Reasoning: Evaluating evidence and what counts as knowledge.
- Hypothetico-Deductive Reasoning: Forming and testing hypotheses.
- Causal Reasoning: Identifying mechanisms and relationships.
- Uncertainty Management: Thinking probabilistically, tolerating uncertainty.

HUMANITIES & SOCIAL SCIENCES

- Critical Reasoning: Analyzing arguments and assumptions.
- Interpretive Reasoning: Making meaning from texts and contexts.
- Associative Thinking: Connecting ideas across time and space.
- Perspective-Taking: Understanding multiple viewpoints.

LANGUAGE & LITERACY (FOUNDATIONAL)

- Symbolic Encoding / Decoding: Mapping between language and meaning.
- Semantic Integration: Combining ideas into coherent meaning.
- Discourse Reasoning: Structuring extended texts and arguments.
- Metalinguistic Awareness: Thinking about language itself.

ARTS & CREATIVITY

- Creative Synthesis: Generating original ideas and solutions.
- Aesthetic Judgment: Evaluating beauty, form, and expression.
- Representational Thinking: Expressing meaning through media and symbols.
- Improvisational Thinking: Adapting and creating in the moment.

PHYSICAL & EMBODIED DOMAINS

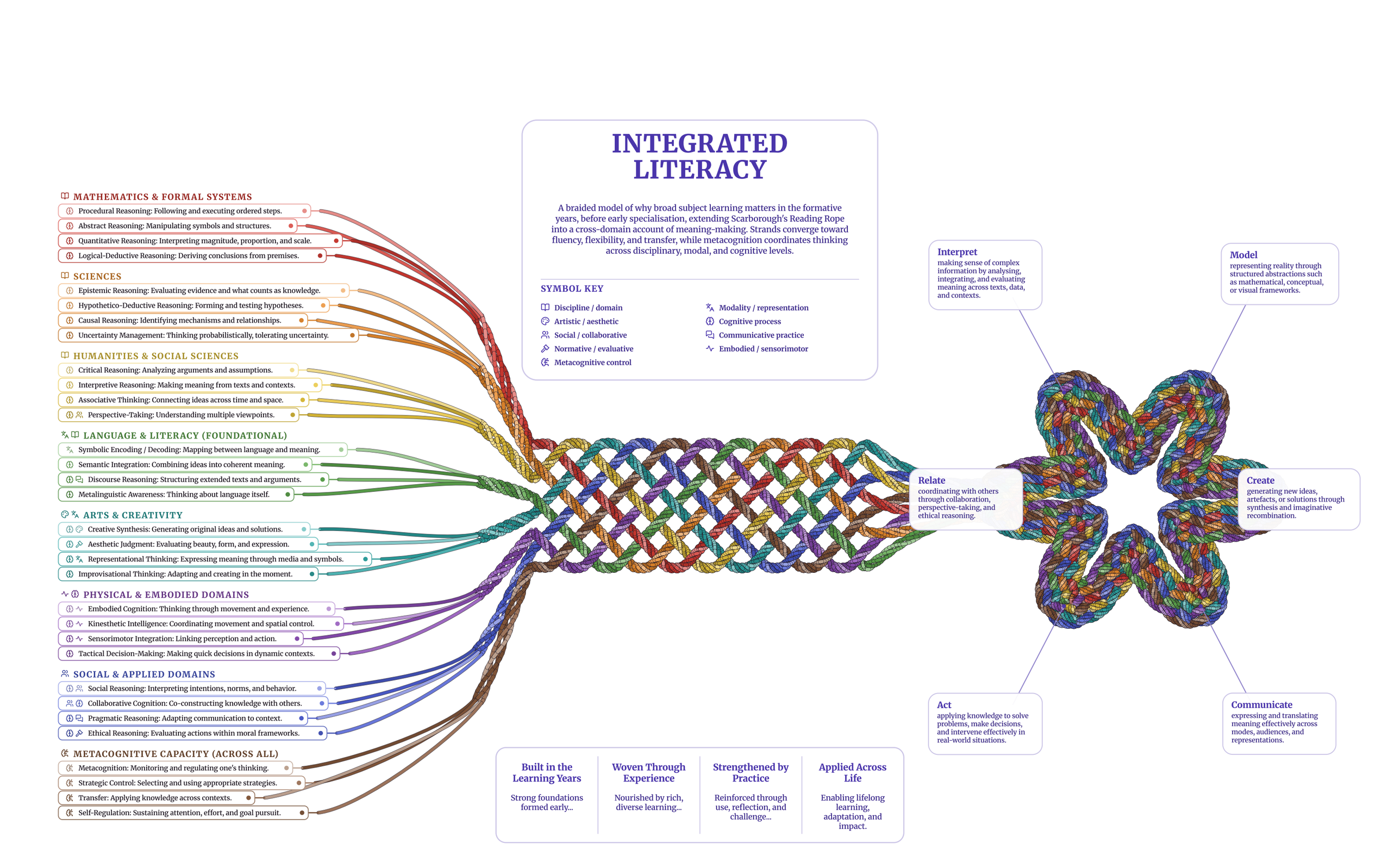
- Embodied Cognition: Thinking through movement and experience.
- Kinesthetic Intelligence: Coordinating movement and spatial control.
- Sensorimotor Integration: Linking perception and action.
- Tactical Decision-Making: Making quick decisions in dynamic contexts.

SOCIAL & APPLIED DOMAINS

- Social Reasoning: Interpreting intentions, norms, and behavior.
- Collaborative Cognition: Co-constructing knowledge with others.
- Pragmatic Reasoning: Adapting communication to context.
- Ethical Reasoning: Evaluating actions within moral frameworks.

METACOGNITIVE CAPACITY (ACROSS ALL)

- Metacognition: Monitoring and regulating one's thinking.
- Strategic Control: Selecting and using appropriate strategies.
- Transfer: Applying knowledge across contexts.
- Self-Regulation: Sustaining attention, effort, and goal pursuit.



Interpret
making sense of complex information by analysing, integrating, and evaluating meaning across texts, data, and contexts.

Model
representing reality through structured abstractions such as mathematical, conceptual, or visual frameworks.

Relate
coordinating with others through collaboration, perspective-taking, and ethical reasoning.

Create
generating new ideas, artefacts, or solutions through synthesis and imaginative recombination.

Act
applying knowledge to solve problems, make decisions, and intervene effectively in real-world situations.

Communicate
expressing and translating meaning effectively across modes, audiences, and representations.

Built in the Learning Years
Strong foundations formed early...

Woven Through Experience
Nourished by rich, diverse learning...

Strengthened by Practice
Reinforced through use, reflection, and challenge...

Applied Across Life
Enabling lifelong learning, adaptation, and impact.