

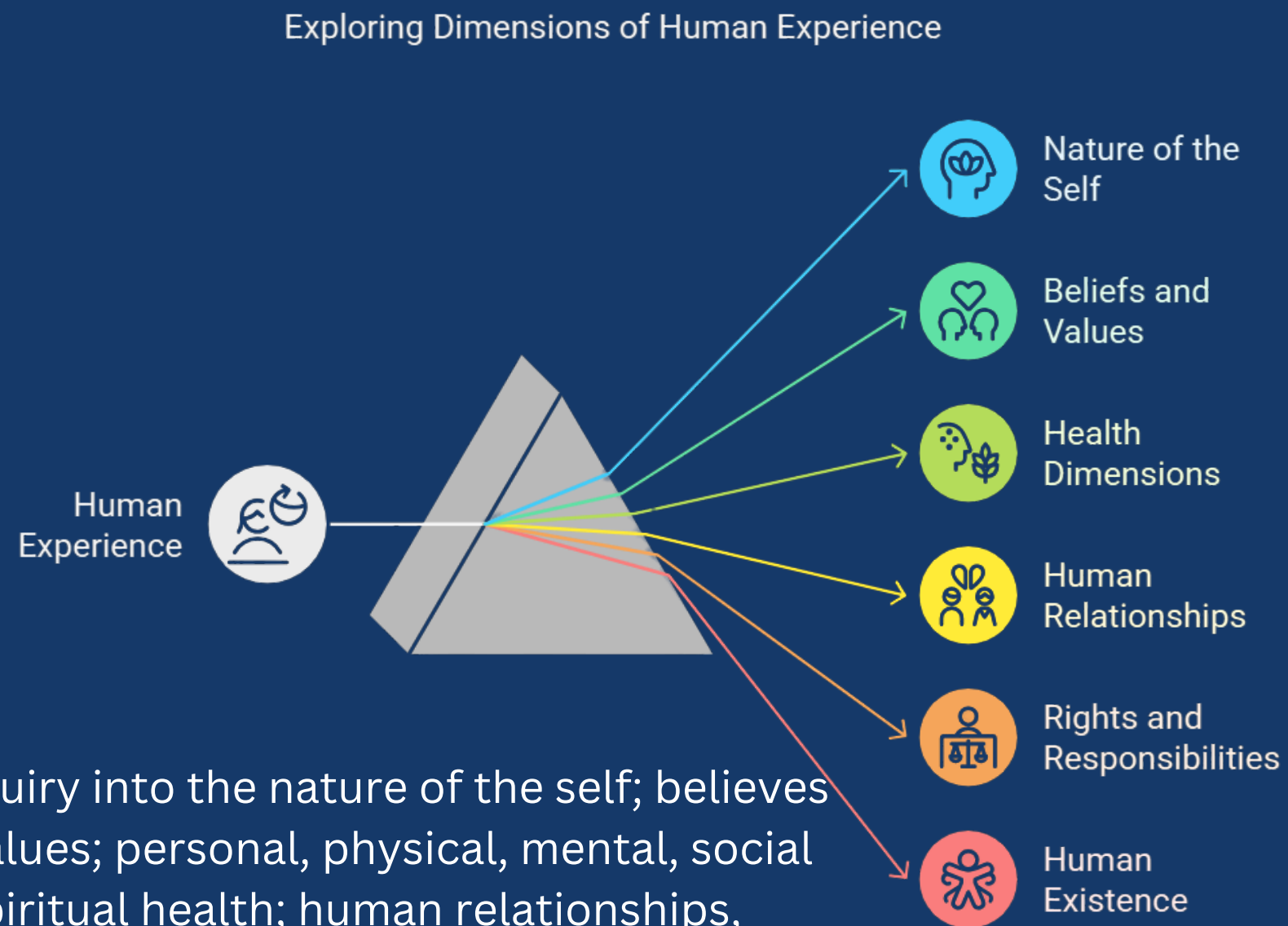
# Mapping New Theme descriptors conceptually

*[www.tannusconceptcorner.com](http://www.tannusconceptcorner.com)*



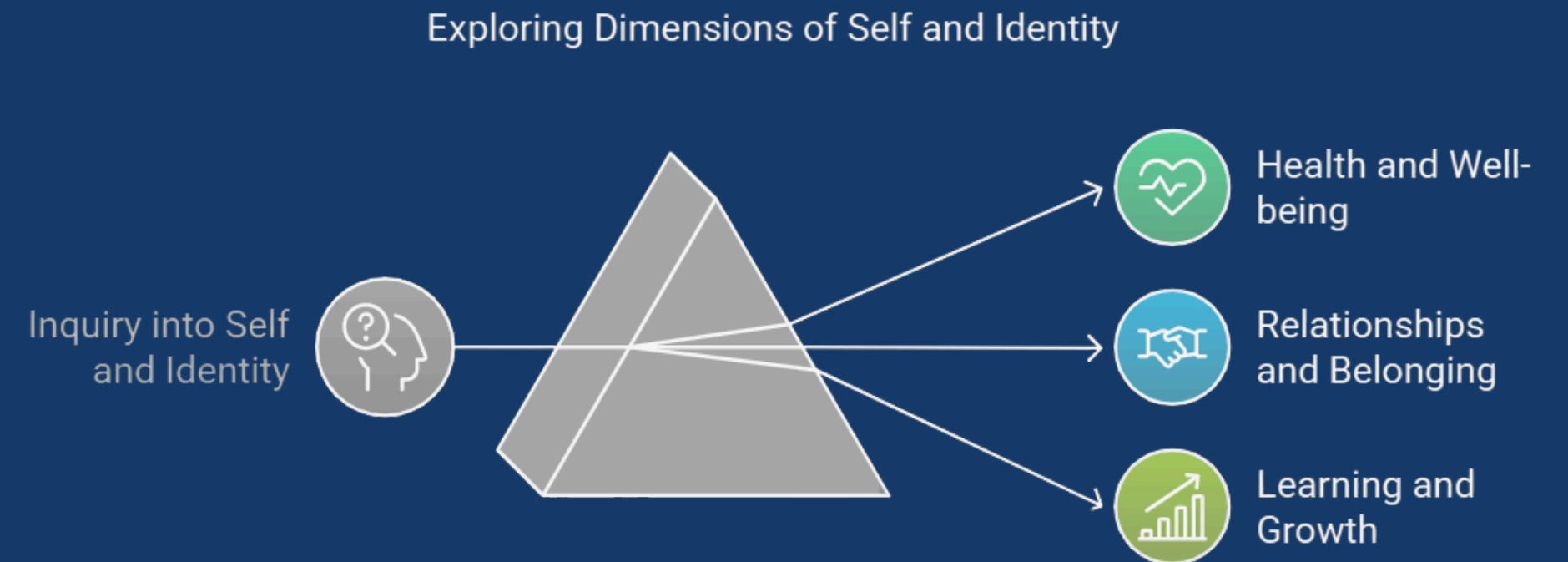
# Who We Are

## Old Descriptor



An inquiry into the nature of the self; beliefs and values; personal, physical, mental, social and spiritual health; human relationships, including families, friends, communities and cultures; rights and responsibilities; what it means to be human

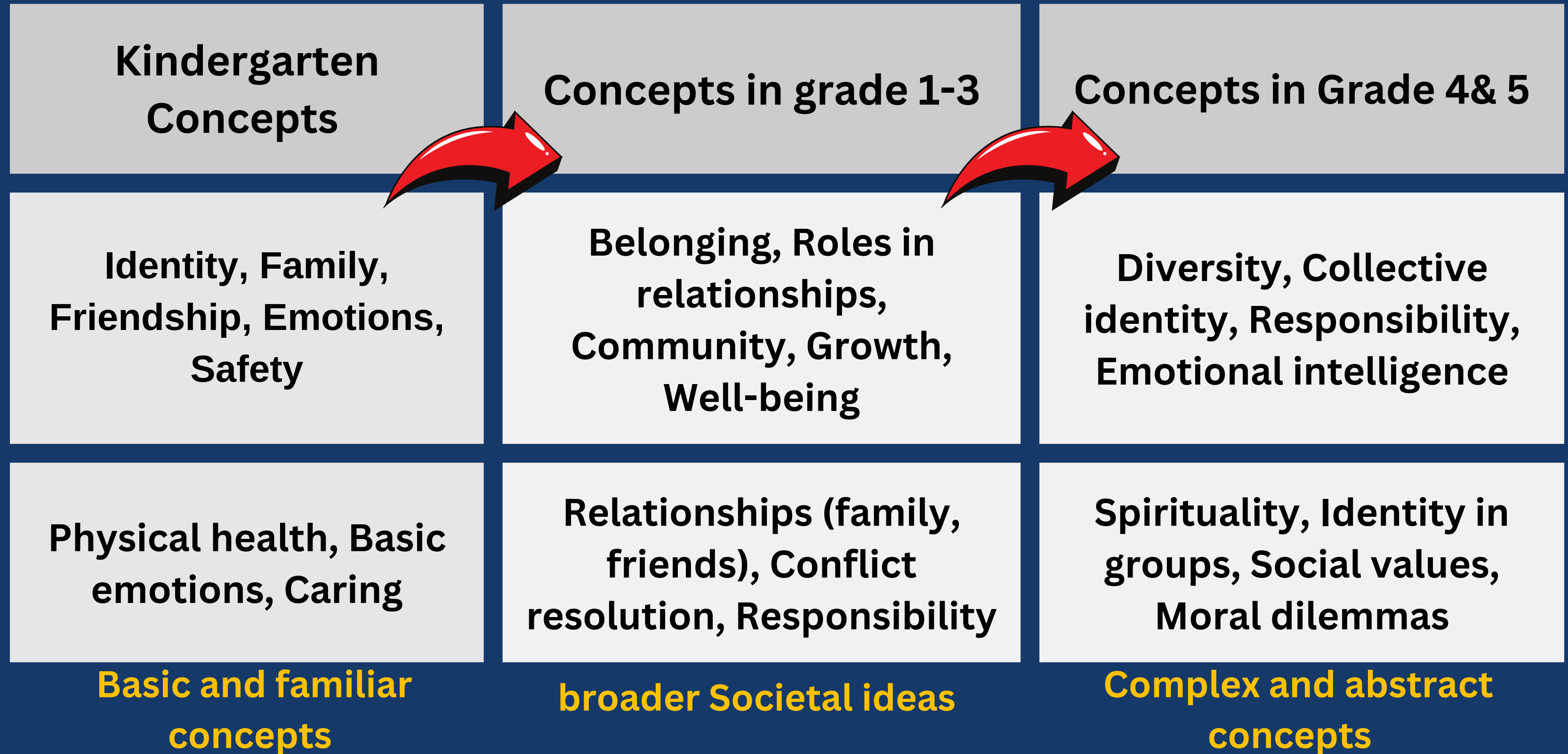
## New Descriptor



An inquiry into identity as individuals and as part of a collective through:

- physical, emotional and spiritual health and well-being;
- relationships and belonging;
- learning and growing

# Who we Are - Developmental Progression



	Science	Social Science	Math	Language	Arts	PSPE
KG	Senses, Human Body, Personal Hygiene, Growth	Family, Identity, Community, Routines	Counting, Measurement, Shapes	Storytelling, Phonemic Awareness, Communication	Expression through Art, Colors & Shapes	Self-awareness, Emotions, Movement, Fine Motor Skills
Grade 1	Living vs. Non-Living, Five Senses, Nutrition	Citizenship, Relationships, Needs & Wants	Number Sense, Money, Patterns	Sentence Formation, Retelling Stories, Fluency	Dance, Symbolism in Art, Music & Movement	Healthy Habits, Emotional Recognition, Teamwork
Grade 2	Life Cycles, Adaptation, Growth & Change	Culture, Diversity, Traditions & Festivals	Addition/Subtraction, Basic Fractions	Writing Process, Paragraphs, Comprehension	Storytelling in Art, Color Theory	Personal Growth, Friendship, Problem-Solving
Grade 3	Human Body Systems, Interdependence, Health	Economics, Social Responsibility, Needs vs. Wants	Multiplication, Fractions, Data Representation	Summarizing, Main Idea, Cause & Effect	Artistic Techniques, Perspective in Art	Physical & Emotional Well-being, Team Sports
Grade 4	Nutrition, Energy in the Body, Mental & Emotional Health	Citizenship, Governance, Community Roles	Decimals, Symmetry, Angles	Research Writing, Fact vs. Opinion, Narrative Writing	Media Influence, Cultural Art Forms	Leadership, Conflict Resolution, Well-being
Grade 5	Human Body Systems, Genetics, Heredity	Government, Human Rights, Social Movements	Ratios, Probability, Data Interpretation	Persuasive Techniques, Critical Reading	Abstract Art, Visual Storytelling	Ethics, Emotional Intelligence, Goal Setting

*An inquiry into identity as individuals and as part of a collective through:*

- *physical, emotional and spiritual health and well-being;*
- *relationships and belonging;*
- *learning and growing*

<b>Subject</b>	<b>Integration Focus</b>	<b>Examples</b>
<b>Science</b>	Understanding human anatomy, mental health, and the connection between physical and emotional well-being.	Study the circulatory system, or research how exercise affects the brain.
<b>Social Science</b>	Exploring cultural values, societal roles, and relationships.	Investigate how family structures differ across cultures.
<b>Language</b>	Writing personal reflections, autobiographies, or exploring stories about belonging.	Create an "identity journal" or write about relationships that shape personal growth.
<b>Art</b>	Expressing identity and emotions through visual or performing arts.	Create self-portraits or collaborative murals about belonging.
<b>Math</b>	Collecting and analyzing data on health or well-being topics.	Graph data on students' physical activities or calculate nutritional intake.

**Who We Are**

# Where we are in Place and Time

## Old Descriptor



An inquiry into orientation in place and time; personal histories; homes and journeys; the discoveries, explorations and migrations of humankind; the relationships between, and the interconnectedness of, individuals and civilizations, from local and global perspectives

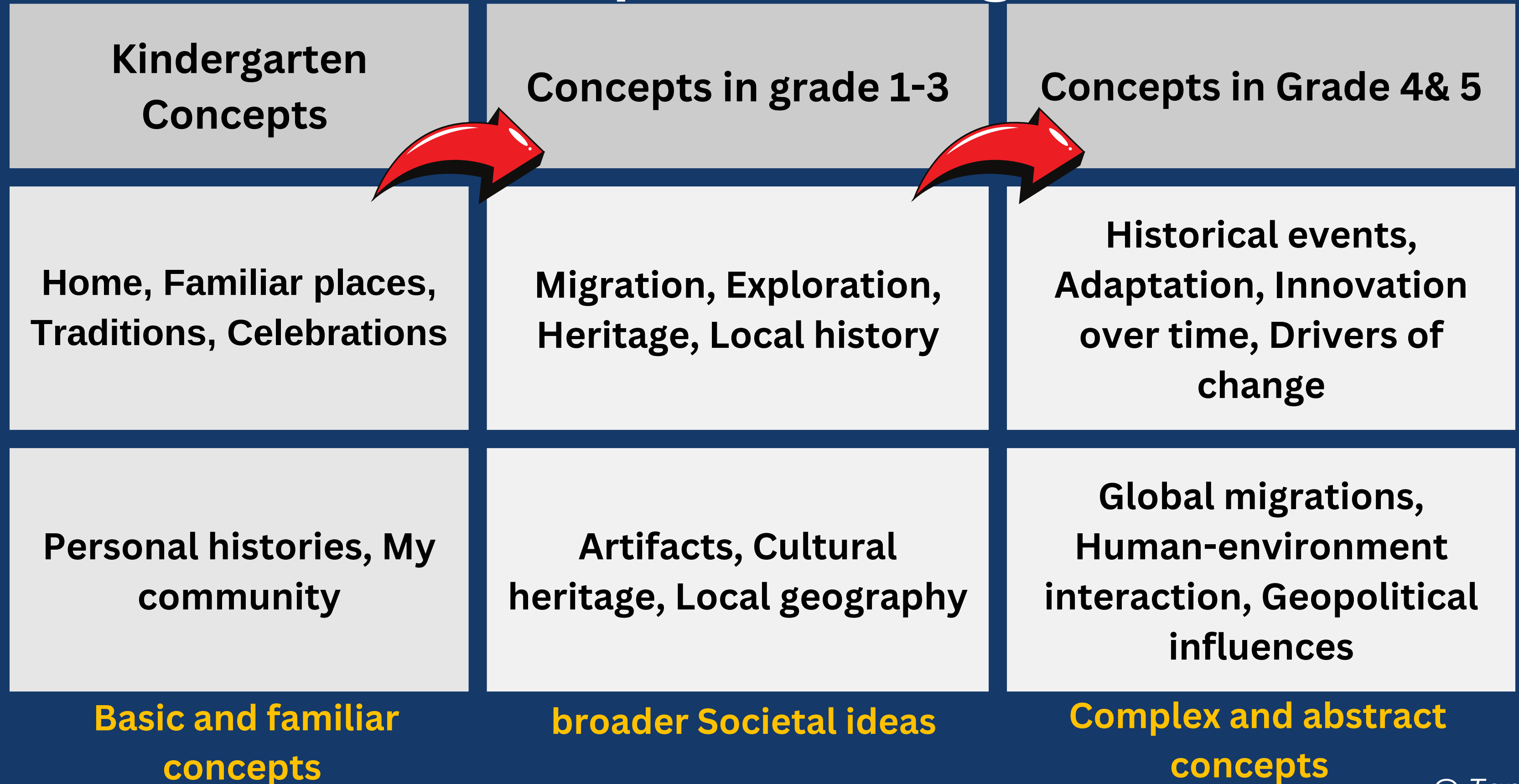
## New Descriptor



An inquiry into histories and orientation in place, space and time through:

- periods, events and artifacts;
- communities, heritage, culture and environment;
- natural and human drivers of movement, adaptation and transformation

# Where we are in place and time - Developmental Progression



	Science	Social Science	Math	Language	Arts	PSPE
KG	Sun & Moon, Weather, Seasonal Changes	My Home, Neighbourhood, Celebrations	Calendar Concepts, Counting Days, Basic Time	Listening Skills, Alphabet Sounds, Visual Cues	Clay Art, Free Drawing, Finger Painting	Awareness of Self & Surroundings
Grade 1	Water Cycle, Weather Patterns	Landforms, Local Leaders, Transport	Telling Time (Hour & Half-Hour), Simple Graphs	Basic Writing, Simple Descriptions	Dance & Movement, Primary & Secondary Colors	Sharing, Turn-Taking, Social Behavior
Grade 2	Heat & Temperature, Earth Changes	Jobs in a Community, Cultural Traditions	Time to the Nearest Five Minutes, Data Representation	Descriptive Writing, Character Traits	Storyboards, Textures, Collage	Empathy, Cultural Awareness
Grade 3	Earth's Rotation, Natural Disasters, Adaptations	Historical Figures, Climate & Adaptation	Time Intervals, Multiplication Facts, Bar Graphs	Poetry, Letter Writing	Printmaking, 3D Shapes in Art	Self-Discipline, Responsibility
Grade 4	Space Exploration, Earth Systems	Maps & Navigation, Natural Disasters	Coordinate Grids, Mixed Numbers, Geometrical Patterns	Making Inferences, Editing & Revising	Theater Arts, Digital Storytelling	Decision-Making, Social Engagement
Grade 5	Space Systems, Tectonic Plates	Global Trade, Climate Change Policies	Negative Numbers, Logical Reasoning	Debating, Literary Analysis	Fashion & Design, Perspective Drawing	Leadership Skills, Global Responsibility

# Where we are in Place & Time

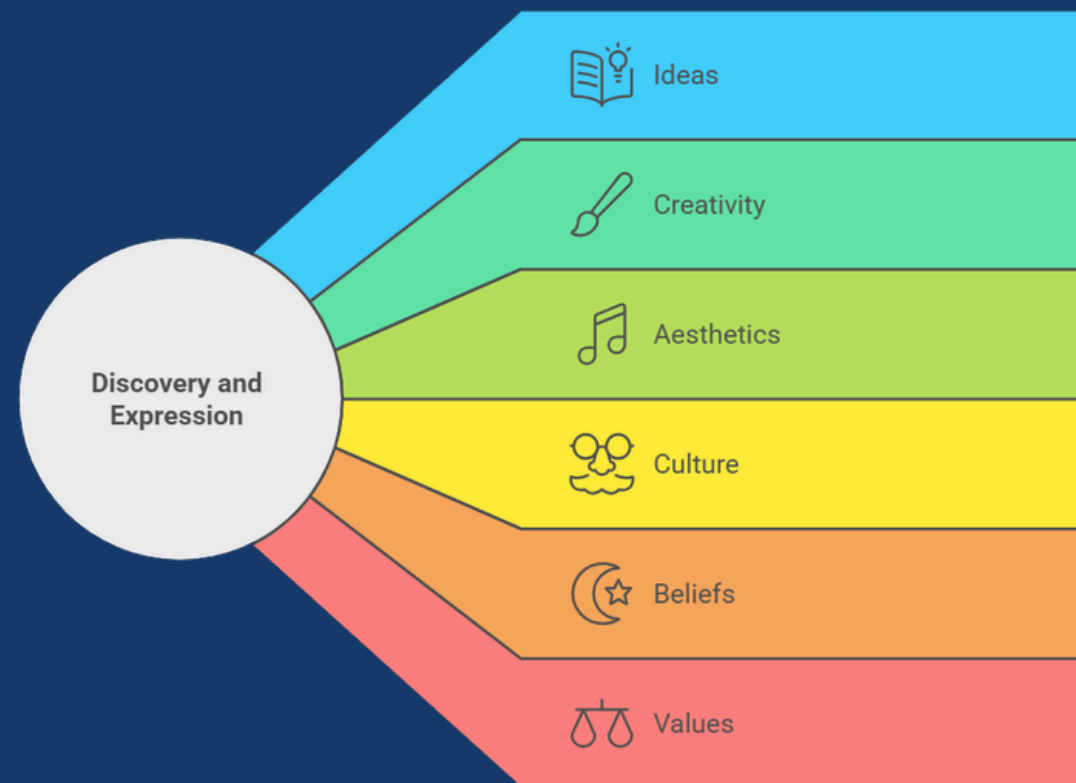
An inquiry into histories and orientation in place, space and time through:

- periods, events and artefacts;
- communities, heritage, culture and environment;
- natural and human drivers of movement, adaptation and transformation

Subject	Integration Focus	Examples
Science	how natural processes (e.g., volcanic eruptions, glaciation) shape human history and geography.	Study the role of earthquakes in shaping human settlements.
Social Science	Exploring historical events, migration patterns, and the preservation of cultural heritage.	Map migration routes, or analyze the significance of historical artifacts.
Language	Writing historical narratives, personal reflections, or research papers.	Write a diary from the perspective of a historical figure.
Art	Creating art inspired by historical events, cultural artifacts, or ancient traditions.	Design masks inspired by indigenous cultures or paint scenes from historical milestones.
Math	Using timelines, maps, and calculations to understand historical events or migrations.	Create a timeline of major geological events or calculate distances covered by early traders.

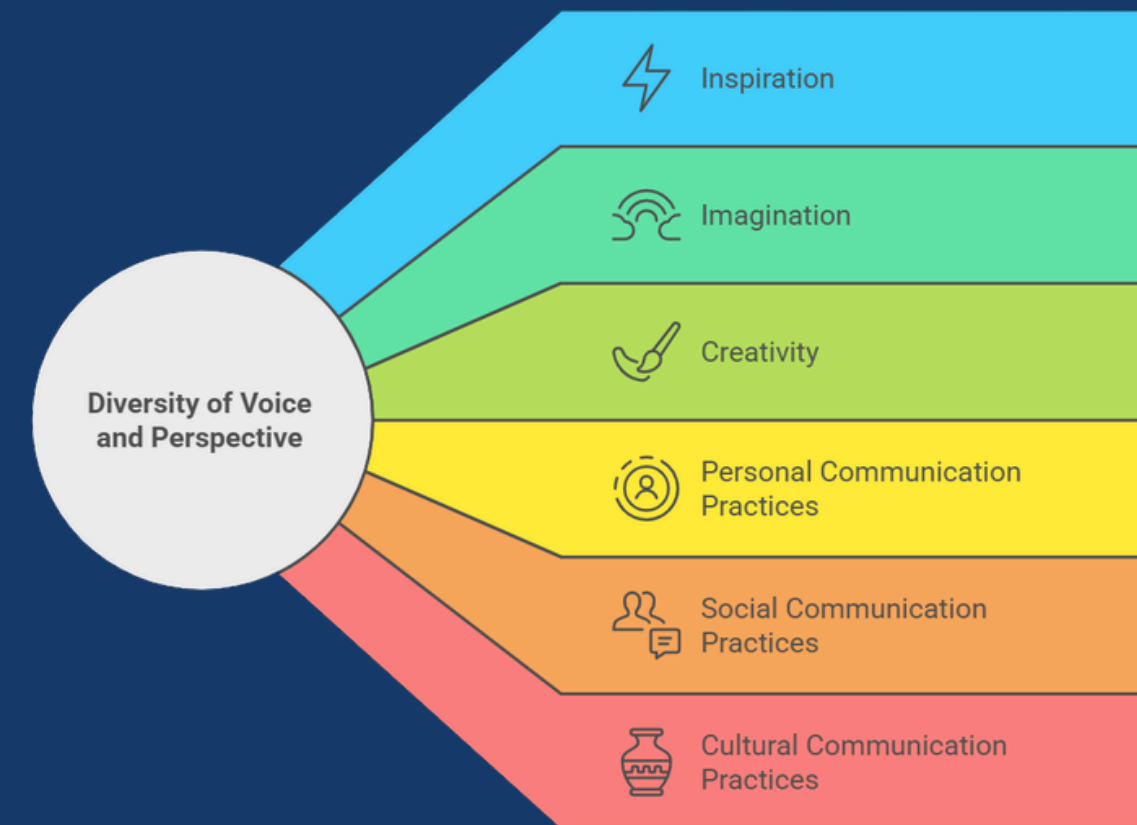
# How we Express Ourselves

## Old Descriptor



An inquiry into the ways in which we discover and express ideas, feelings, nature, culture, beliefs and values; the ways in which we reflect on, extend and enjoy our creativity; our appreciations of the aesthetic

## New Descriptor



An inquiry into the diversity of voice, perspectives, and expression through:

- inspiration, imagination, creativity;
- personal, social, and cultural notes and practices of communication;
- intentions, perceptions, interpretations, and responses

# How we Express Ourselves - Developmental Progression

Kindergarten Concepts	Concepts in grade 1-3	Concepts in Grade 4& 5
Imagination, Creativity, Stories, Basic communication	Cultural symbols, Art forms, Personal expression	Multiple perspectives, Media influence, Global communication
Play-based storytelling, Music, Role-play	Poetry, Cultural practices in art, Communication techniques	Artistic interpretation, Power of voice, Response to creative works

**Basic and familiar concepts**

**broader Societal ideas**

**Complex and abstract concepts**

# How we Express Ourselves

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	Science	Social Science	Math	Language	Arts	PSPE
Kindergarten	Sound & Light, Communication in Nature	Festivals, Symbols, Storytelling	Patterns, Shapes in Art	Simple Stories, Rhymes	Free Expression, Sensory Art	Creative Play, Expressing Feelings
Grade 1	Shadows, Reflections, Colors & Light	Traditions, Symbols, Celebrations	Patterns in Art, Measurement	Retelling Stories, Simple Sentences	Dance, Music, Performance Arts	Drama & Role-Plays
Grade 2	Energy & Motion, Sound Waves	Oral Traditions, Mythology	Shapes in Architecture, Symmetry	Writing for Expression, Dialogue	Storytelling through Art, Visual Narratives	Group Performances, Expressing Emotions
Grade 3	Force & Motion, Balance	Art History, Cultural Music & Dance	Perimeter, Area, Perspective	Opinion Writing, Cause & Effect	Digital Art, Mixed Media	Teamwork in Creativity
Grade 4	Reflection & Refraction, Light & Color	Media & Communication	Angles, Symmetry	Research Writing, Persuasive Techniques	Theater, Abstract Art	Collaboration in the Arts
Grade 5	Engineering, Design Thinking	Global Art Influences	Data Interpretation, Logical Patterns	Critical Writing, Debating	Fashion, Cultural Expression	Leadership in Creative Spaces

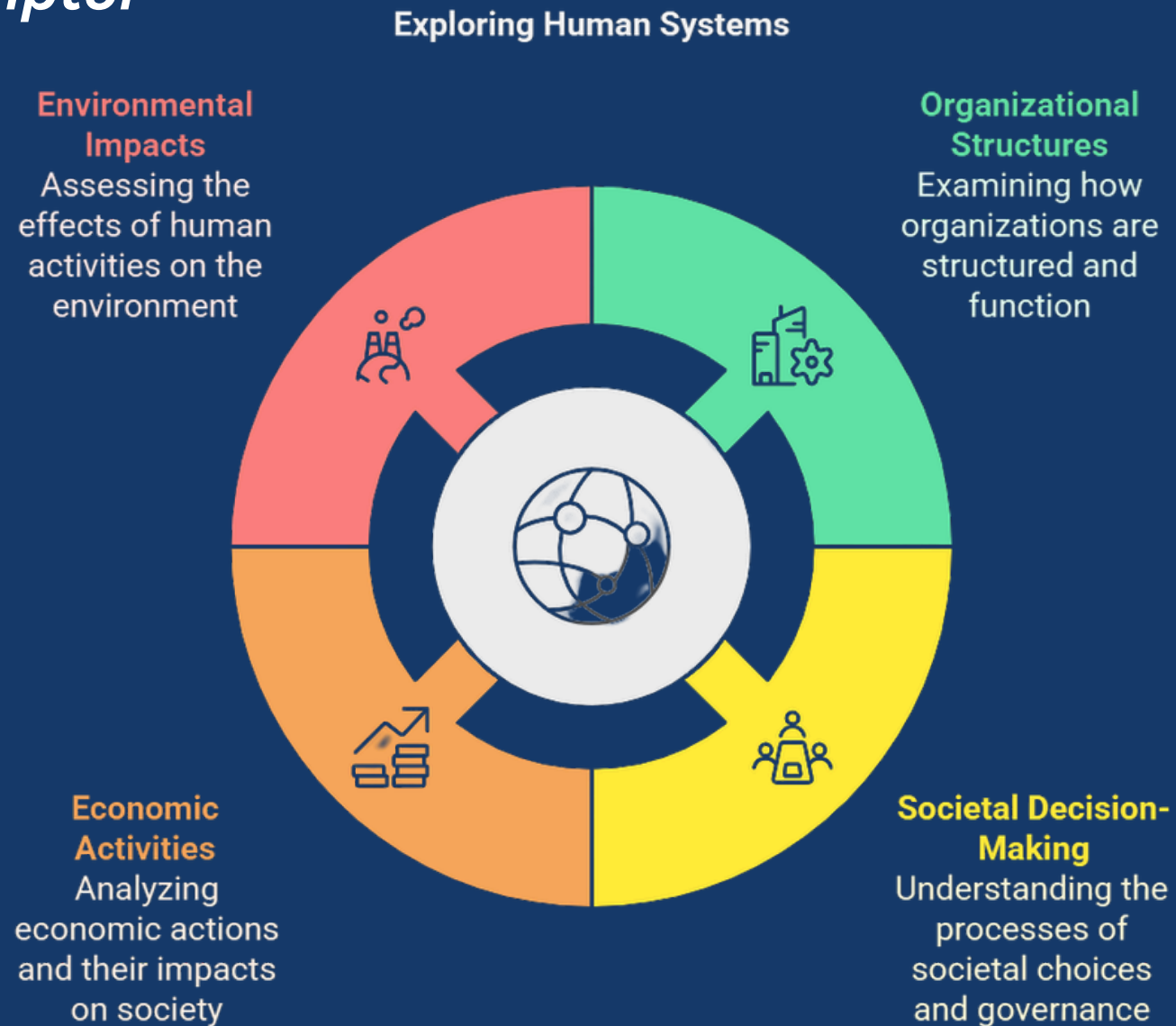
An inquiry into the diversity of voices, perspectives, and expression through:

- inspiration, imagination, creativity;
- personal, social, and cultural notes and practices of communication;
- intentions, perceptions, interpretations, and responses

Subject	Integration Focus	Examples
Science	Investigating the science behind artistic expression (e.g., sound, light, color).	Study how light creates colors or how sound waves enable music.
Social Science	Exploring how cultural values and perspectives shape creative expression.	Investigate traditional art forms or the role of storytelling in preserving culture.
Language	Analyzing literature, writing poetry, or creating scripts for performance.	Write cultural stories, poems, or dramatic scripts inspired by historical events.
Art	Creating visual, musical, or dramatic representations of cultural or personal identity.	Design cultural masks, choreograph dances, or compose music based on personal experiences.
Math	Using geometry and proportions in artistic creations.	Create tessellations, or calculate the golden ratio in art and architecture.

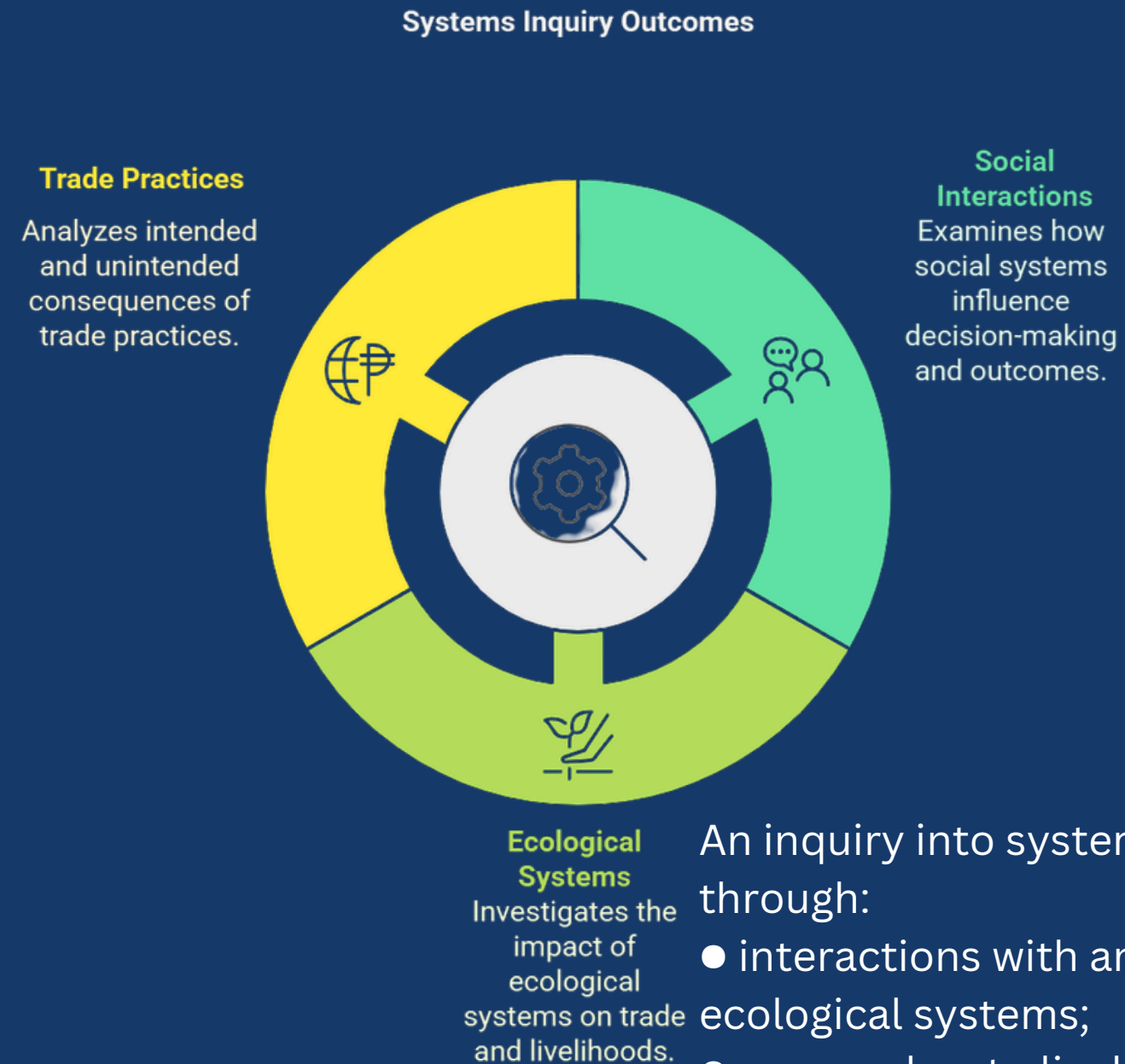
# How we Organize Ourselves

## Old Descriptor



An inquiry into the interconnectedness of human-made systems and communities; the structure and function of organizations; societal decision-making; economic activities and their impact on humankind and the environment

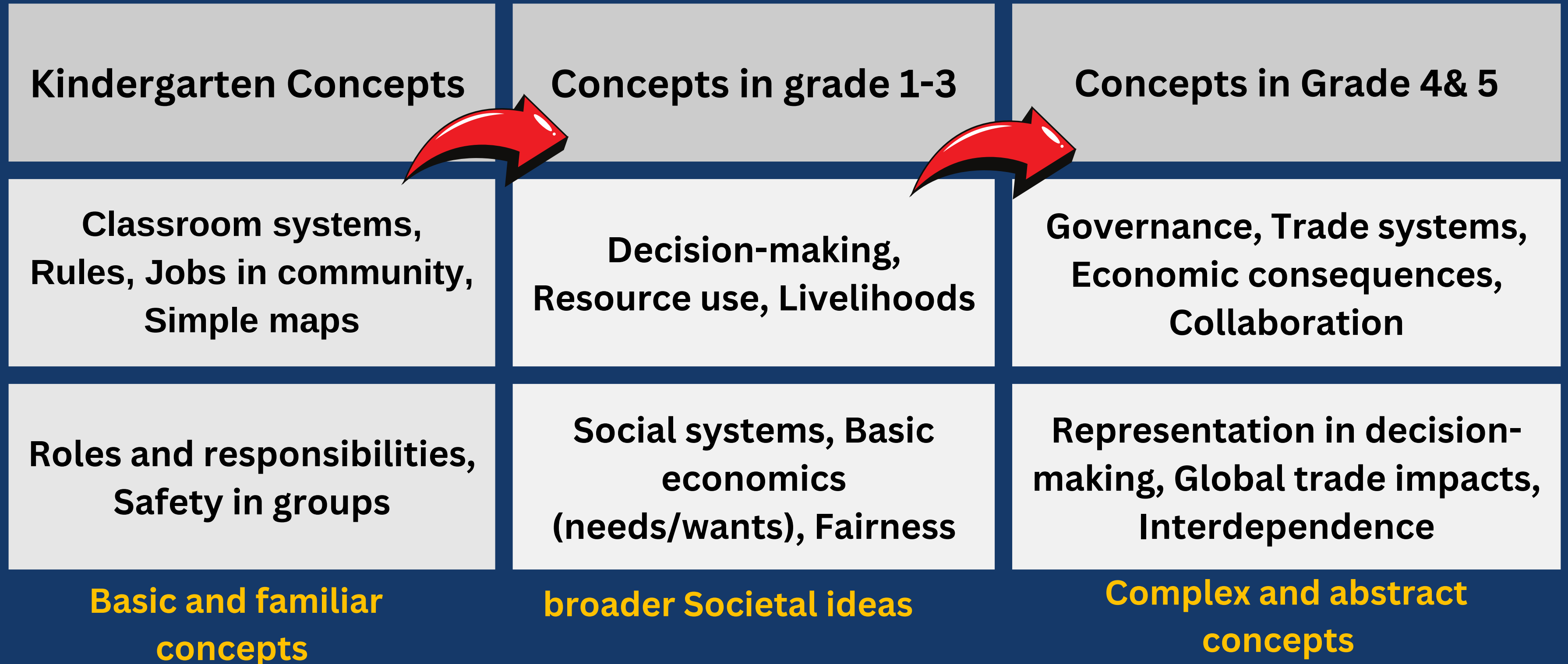
## New Descriptor



An inquiry into systems, structures, and networks through:

- interactions with and between social and ecological systems;
- approaches to livelihoods and trade practice - intended and unintended consequences;
- representation, collaboration, and decision-making

# How we Organise Ourselves - Developmental Progression



# How we Organise Ourselves

@Tannu Jain

	Science	Social Science	Math	Language	Arts	PSPE
Kindergarten	Animal & Plant Basics	Community Roles	Sorting, Simple Patterns	Listening, Simple Conversations	Free Drawing, Collage	Self-Regulation
Grade 1	Animal Habitats, Basic Needs	Government, Rules, Neighborhoods	Money, Simple Graphs	Sentence Formation, Writing Basics	Symbolism in Art	Responsibility, Group Work
Grade 2	Food Chains, Interdependence	Jobs, Local Economy	Data Handling, Basic Division	Opinion Writing, Reports	Digital Media, Storytelling	Teamwork, Decision-Making
Grade 3	Conservation, Ecosystem Balance	Resources, Economics	Logical Reasoning, Money	Persuasive Writing, Cause & Effect	Political Cartoons, Media Arts	Social Ethics, Conflict Resolution
Grade 4	Sustainability, Natural Resource Use	Governance, Laws, Global Economy	Graphing, Data Interpretation	Public Speaking, Research Skills	Advertising & Influence in Art	Leadership, Community Service
Grade 5	Climate Change, Renewable Energy	Global Relations, Activism	Advanced Data Analysis	Argument Writing, Debate	Mural Art, Social Issues in Art	Ethics, Activism

An inquiry into systems, structures, and networks through:

- interactions with and between social and ecological systems;
- approaches to livelihoods and trade practice - intended and unintended consequences;
- representation, collaboration, and decision-making

Subject	Integration Focus	Examples
Science	Investigating how human systems (e.g., agriculture, industry) interact with ecological systems	Study the impact of industrial farming on biodiversity.
Social Science	Exploring governance, economic systems, and resource management.	Investigate trade routes, global markets, or systems of government.
Language	Writing persuasive essays, creating informational texts, or participating in debates.	Write about the effects of global trade practices, or argue for sustainable urban planning.
Art	Designing visual representations of human and natural systems (e.g., city planning, resource use).	Create models of sustainable cities or design logos for environmental campaigns.
Math	Analyzing trade data, calculating resource consumption, and creating graphs.	Graph trade balances, or calculate the carbon footprint of products

# Sharing The Planet

## Old Descriptor

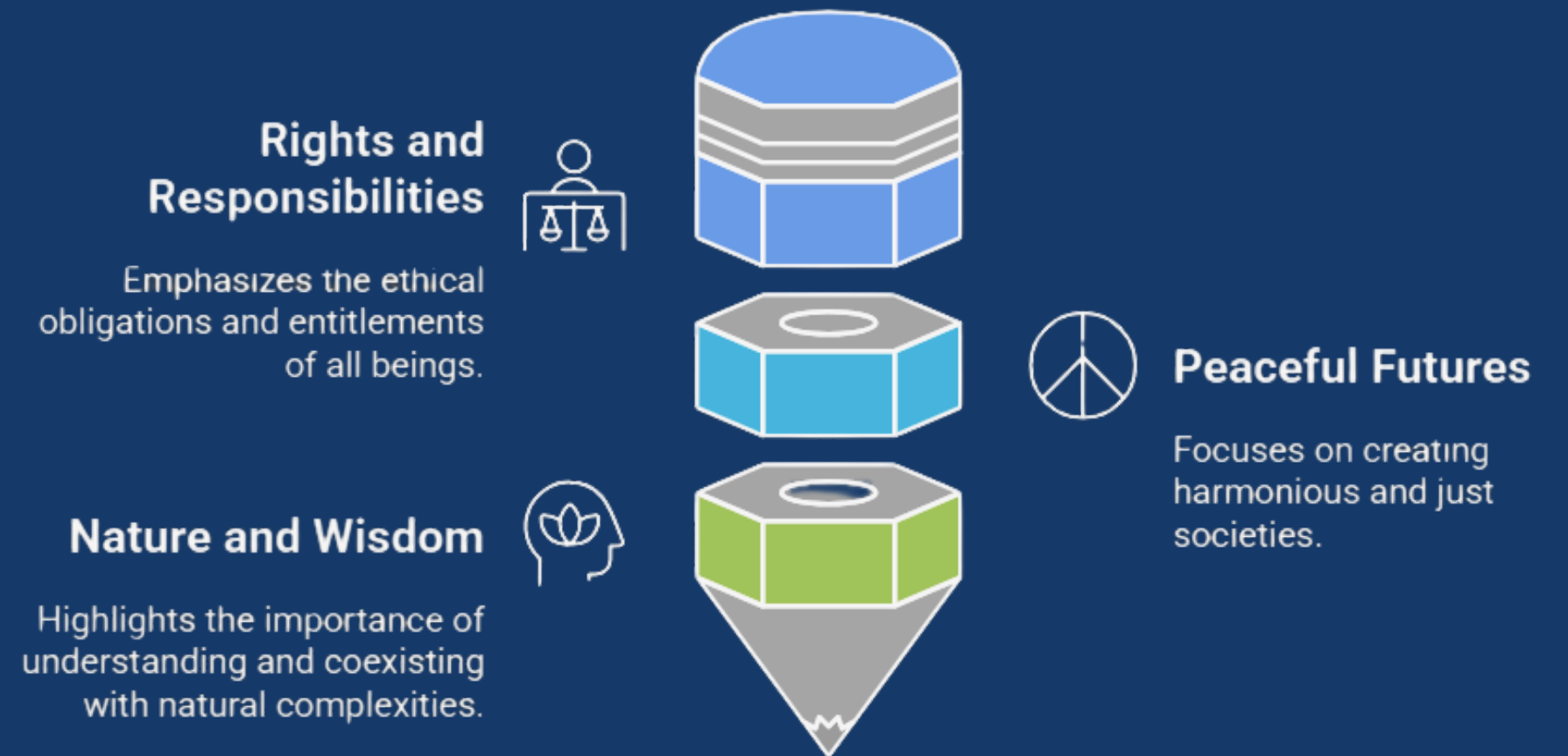
Components of Social Harmony



An inquiry into rights and responsibilities in the struggle to share finite resources with other people and with other living things; communities and the relationships within and between them; access to equal opportunities; peace and conflict resolution

## New Descriptor

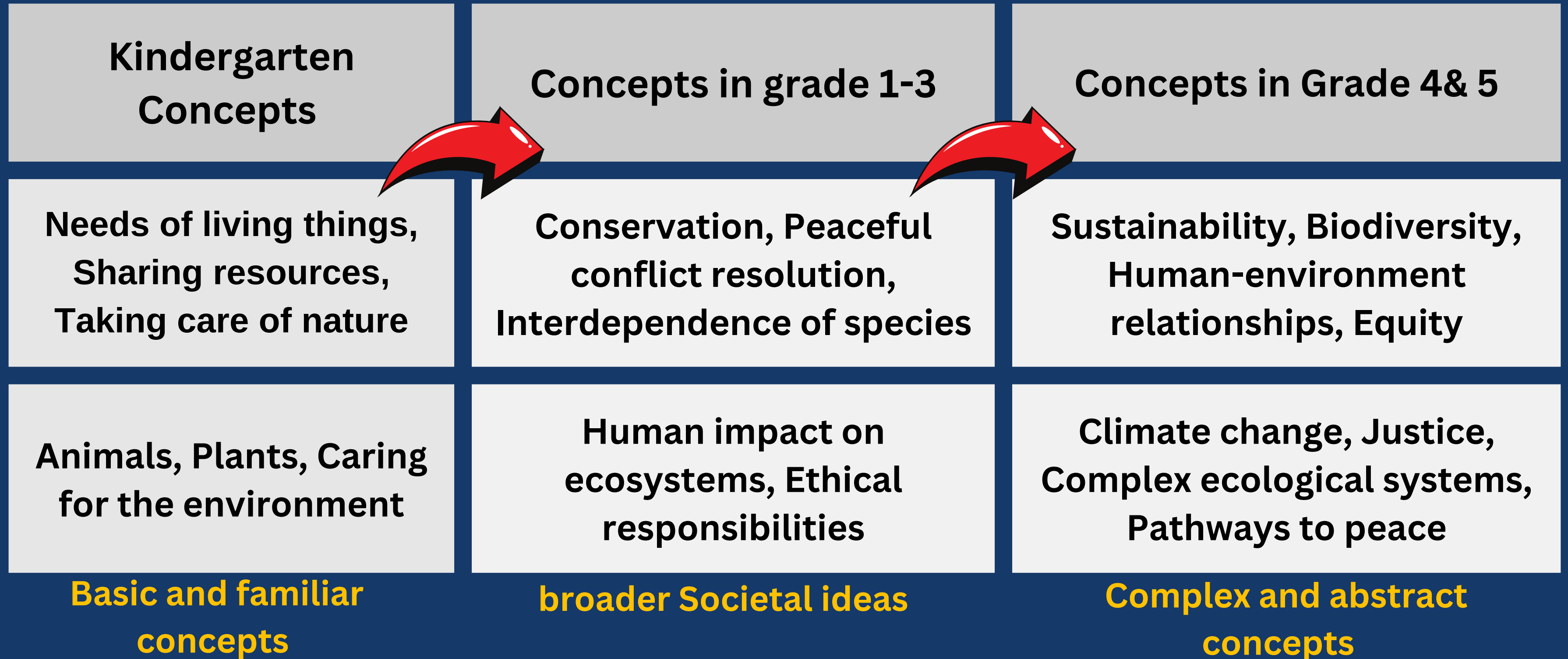
Pathways to Interdependence



An inquiry into the interdependence of human and natural worlds through:

- rights, responsibilities, and dignity of all;
- pathways to just, peaceful, and reimagined futures;
- nature, complexity, coexistence, and wisdom

# Sharing The Planet - Developmental Progression



	Science	Social Science	Math	Language	Arts	PSPE
Kindergarten	Basic Needs of Living Things, Plants & Animals, Weather & Seasons	Caring for the Environment, Community Helpers & Their Roles	Sorting by Attributes, Simple Patterns, Counting Objects in Nature	Storytelling about Nature, Simple Descriptions	Free Expression through Nature Art (Leaf Printing, Sand Art)	Awareness of Nature, Playing Outdoors, Taking Turns
Grade 1	Animal Habitats, Basic Life Cycles, Conservation (Water & Air)	Protecting Natural Resources, Recycling, Helping the Community	Measurement (Water & Soil), Comparing Quantities	Reading & Writing Simple Nature-Based Stories	Drawing Plants & Animals, Clay Modeling	Outdoor Play, Basic Gardening, Cleaning up Spaces
Grade 2	Food Chains, Basic Ecosystems, Weather Patterns & Impact	Community Responsibility, Pollution Awareness, Sustainable Practices	Data Collection (Counting Trees, Measuring Rainfall), Basic Graphs	Writing Simple Reports on Nature & Environment	Collage & Mixed Media Using Recycled Materials	Caring for Environment, Mindfulness in Nature
Grade 3	Interdependence in Nature, Water Cycle, Renewable vs. Non-Renewable Resources	Impact of Human Actions on Environment, Local Sustainability Projects	Bar Graphs, Data Representation on Resource Use	Opinion Writing (Why We Should Protect Nature)	Landscape Painting, Printmaking with Natural Materials	Teamwork in Outdoor Activities, Personal Responsibility in Using Resources
Grade 4	Conservation Strategies, Human Impact on Ecosystems, Climate Change	Global Environmental Issues, Governance & Policies on Sustainability	Advanced Data Analysis (Population & Resource Use), Measurement in Environmental Studies	Research-Based Writing on Conservation	Digital Art for Advocacy, Posters for Sustainability	Leadership in Eco-Friendly Initiatives, Managing Emotions Around Change
Grade 5	Biodiversity, Climate Change, Sustainable Development, Endangered Species	Global Responsibility, United Nations & Climate Action, Sustainable Cities	Probability & Statistics (Climate Data Analysis), Ratios in Resource Use	Persuasive Writing (Advocacy for the Environment), Critical Reading on Environmental Topics	Mural Art on Environmental Themes, Fashion & Upcycling Art	Ethical Decision-Making, Activism, Social Responsibility in Environmental Issues

*An inquiry into the interdependence of humans and natural worlds through:*

- *rights, responsibilities, and dignity of all;*
- *pathways to just, peaceful, and reimagined futures;*
- *nature, complexity, coexistence, and wisdom*

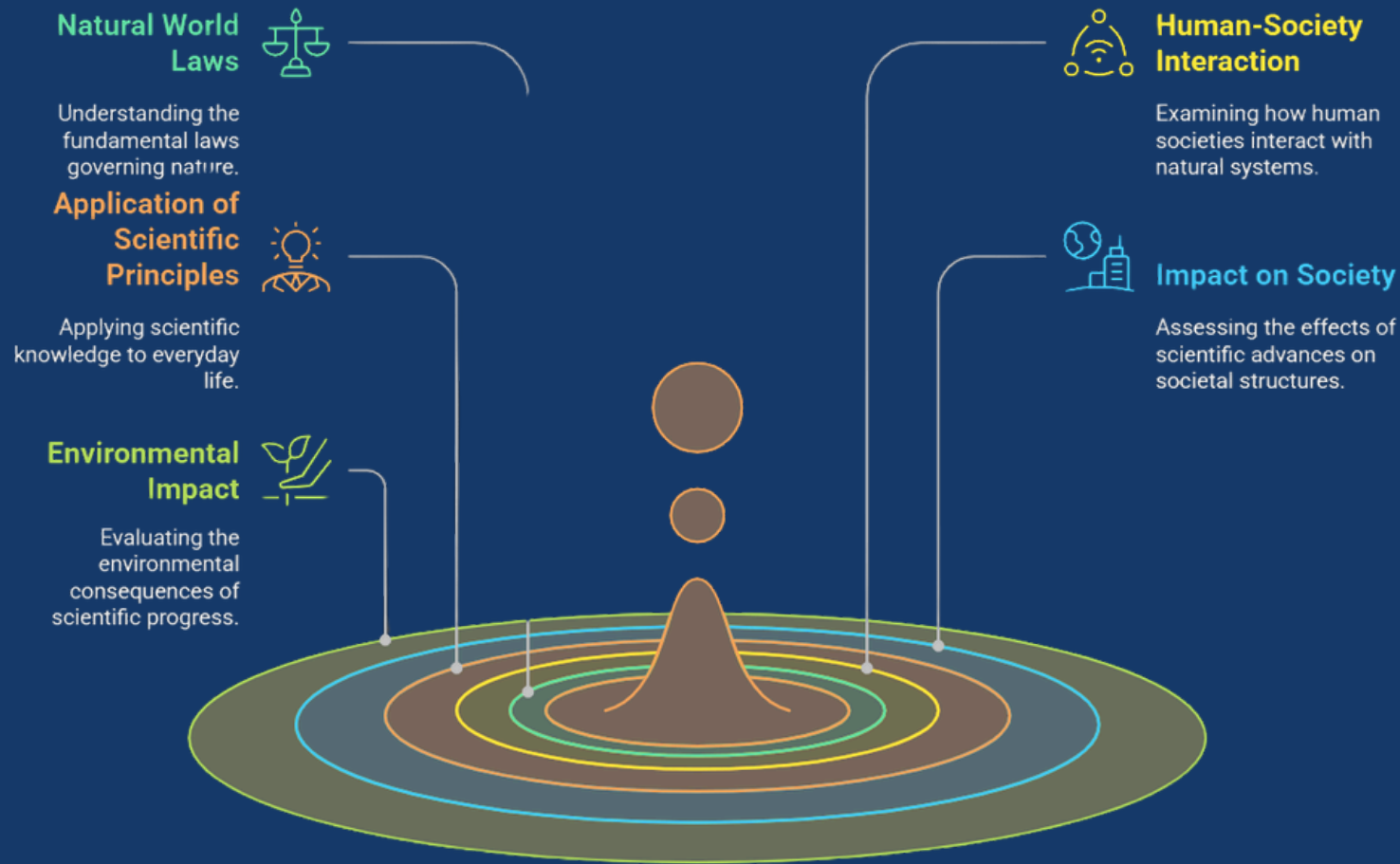
<b>Subject</b>	<b>Integration Focus</b>	<b>Examples</b>
<b>Science</b>	Exploring ecosystems, biodiversity, and the impact of human activity on the environment	Study food chains, endangered species, or renewable energy, solutions.
<b>Social Science</b>	Investigating resource management, conflict resolution, and sustainability practices.	Analyze case studies on water scarcity, or investigate global initiatives like the SDGs.
<b>Language</b>	Writing persuasive essays, conducting debates, or presenting research on environmental issues.	Write a letter advocating for conservation, or debate sustainable energy use.
<b>Art</b>	Creating visual projects that highlight the beauty of nature or the impact of human activity.	Design posters about reducing waste or paint a piece inspired by ecosystems.
<b>Math</b>	Using statistics to analyze resource consumption or environmental changes.	Graph carbon emissions over time, or analyze data on deforestation rates.

**Sharing The Planet**

# How the World Works

## Old Descriptor

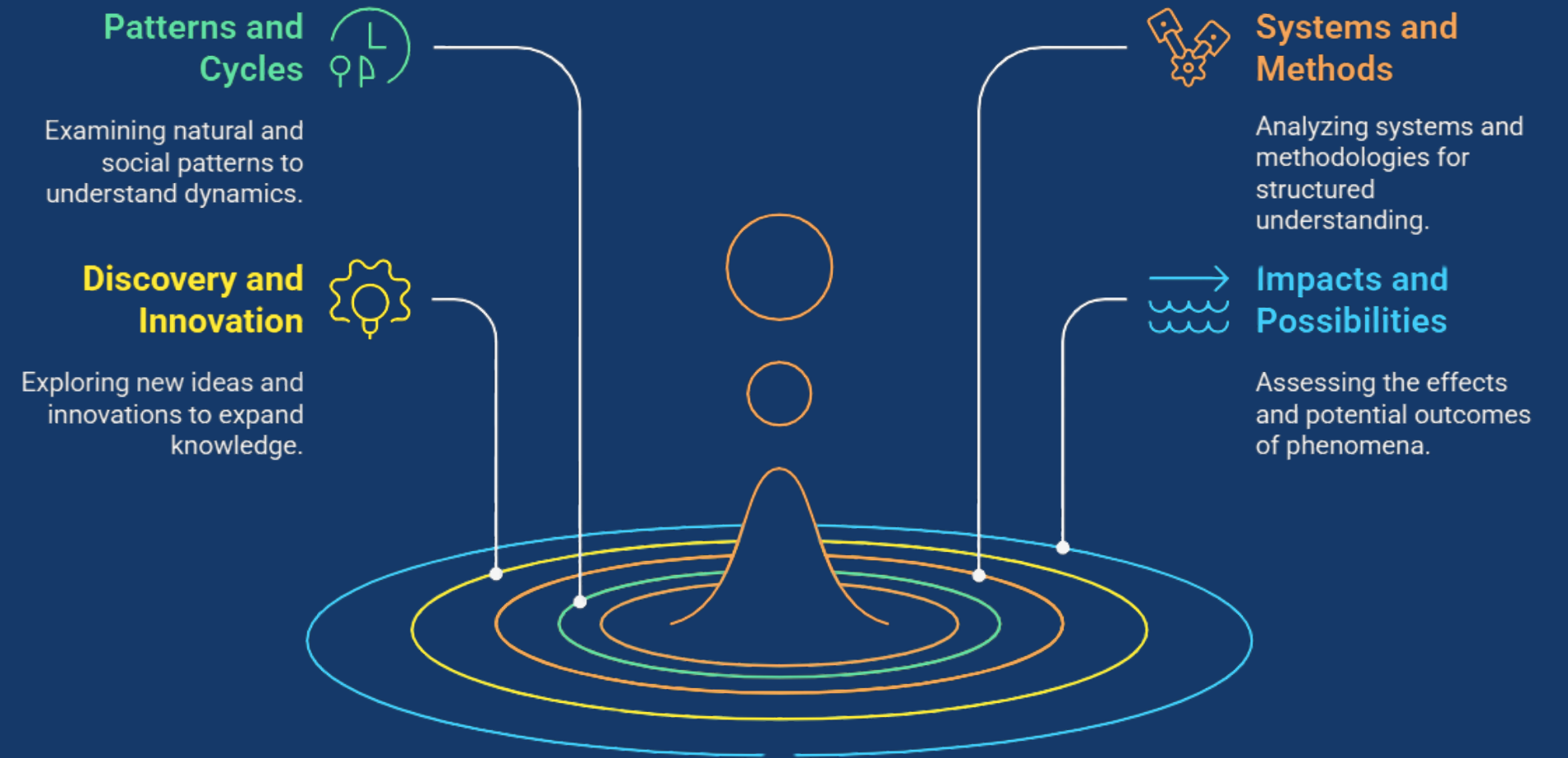
Scientific Inquiry and Impact



An inquiry into the natural world and its laws; the interaction between the natural world (physical and biological) and human societies; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and the environment

Exploring World Understandings

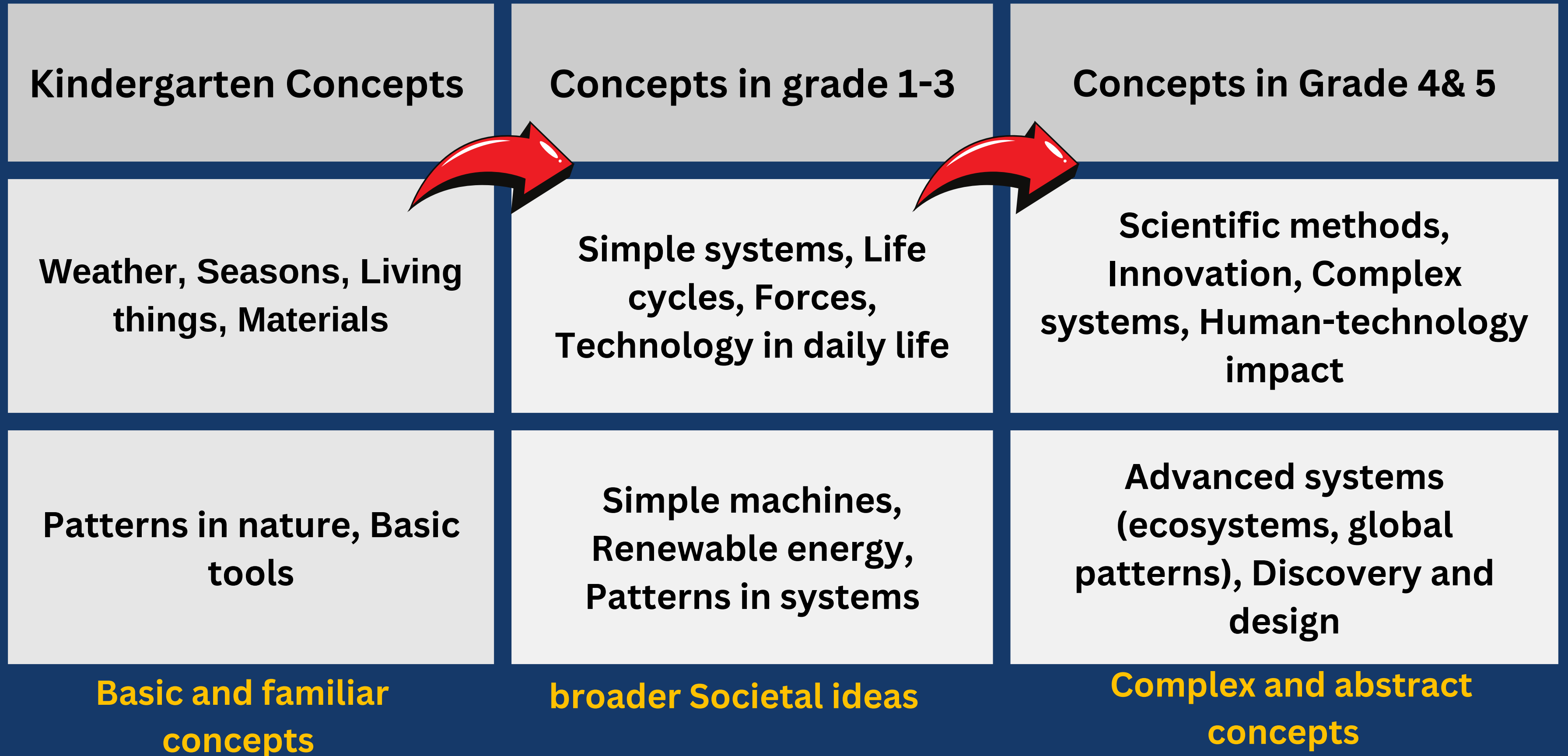
## New Descriptor



An inquiry into the understanding of the world and phenomena through:

- patterns, cycles, systems;
- diverse practices, methods, and tools;
- discovery, design, innovation, possibilities, and impacts

# How the World Works - Developmental Progression



# How the World Works

@Tannu Jain

	Science	Social Science	Math	Language	Arts	PSPE
Kindergarten	Floating & Sinking, Textures, Properties of Objects	Basic Maps, Safety	Spatial Awareness, Measurement	Oral Language, Phonemic Awareness	Sensory Exploration, Clay Art	Coordination, Balance
Grade 1	Push & Pull, Simple Machines	Work & Tools in Society	Measurement with Non-Standard Units	Story Structure, Basic Writing	Patterns in Art	Awareness of Surroundings
Grade 2	States of Matter, Properties of Materials	Natural vs. Man-Made	Basic Fractions, Data Collection	Writing Descriptions	Storyboards, Collage	Mindfulness, Inquiry Skills
Grade 3	Renewable Energy, Friction, Ecosystems	Human Impact on Nature	Data Analysis, Graphing	Summarizing, Main Idea	Printmaking, Perspective in Art	Experimentation, Growth Mindset
Grade 4	Energy Transfer, Weathering & Erosion	Environmental Impact	Advanced Fractions, Symmetry	Narrative Writing, Fact vs. Opinion	3D Modeling, Scientific Art	Scientific Thinking, Problem Solving
Grade 5	Matter & Energy, Adaptation	Sustainable Development, Activism	Probability, Ratios	Research-Based Writing	Visual Storytelling, Infographics	Social Responsibility

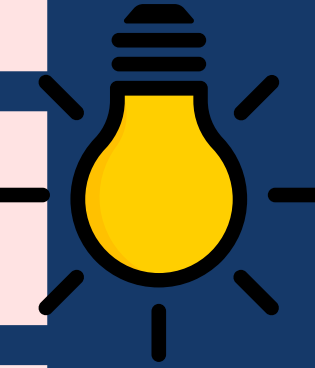
*An inquiry into the understanding of the world and phenomena through:*

- *patterns, cycles, systems;*
- *diverse practices, methods, and tools;*
- *discovery, design, innovation, possibilities, and impacts*

<b>Subject</b>	<b>Integration Focus</b>	<b>Examples</b>
<b>Science</b>	natural systems (e.g., ecosystems, tectonic plates, weather), energy, forces, and materials.	Study the water cycle, forces and motion, or renewable energy innovations.
<b>Social Science</b>	how understanding natural phenomena has shaped societies and cultures.	Investigate how ancient civilizations adapted to natural cycles (e.g., Nile flooding).
<b>Language</b>	Reading and writing scientific explanations or reports; presenting findings.	Write an explanation of a natural phenomenon, or read biographies of scientists.
<b>Art</b>	Representing scientific patterns and cycles creatively (e.g., through diagrams, painting, or digital media).	Create a mural showing the phases of the moon or the layers of Earth
<b>Math</b>	Analyzing data and identifying patterns (e.g., temperature changes, population growth).	Graph weather patterns, calculate the speed of a moving object, or analyze data on ecosystems.

# Comparing Old and New Trans Disciplinary -Theme Descriptors

Aspects	Old Descriptors	New Descriptors
Focus	General and broad ideas	Defined subcategories with clear areas of inquiry
Connections	More human-focused	Balance between human and natural worlds
Subject-Specific Opportunities	Limited specificity for depth with Implicit connections	Clear pathways for exploring subject-specific concepts with explicit scope for inter disciplinary exploration.
Developmental progression	Lacks clarity of progression of complexity	Three points reflects gradual progression, moving from concrete ideas for younger learners to abstract & inter disciplinary inquiries for older.
Future-Oriented Thinking	Focused on current and historical perspectives	Emphasizes forward-thinking, sustainability, and transformation



# Pause & Reflect



How well do the current **central ideas** align with the **subcategories** in the descriptors?



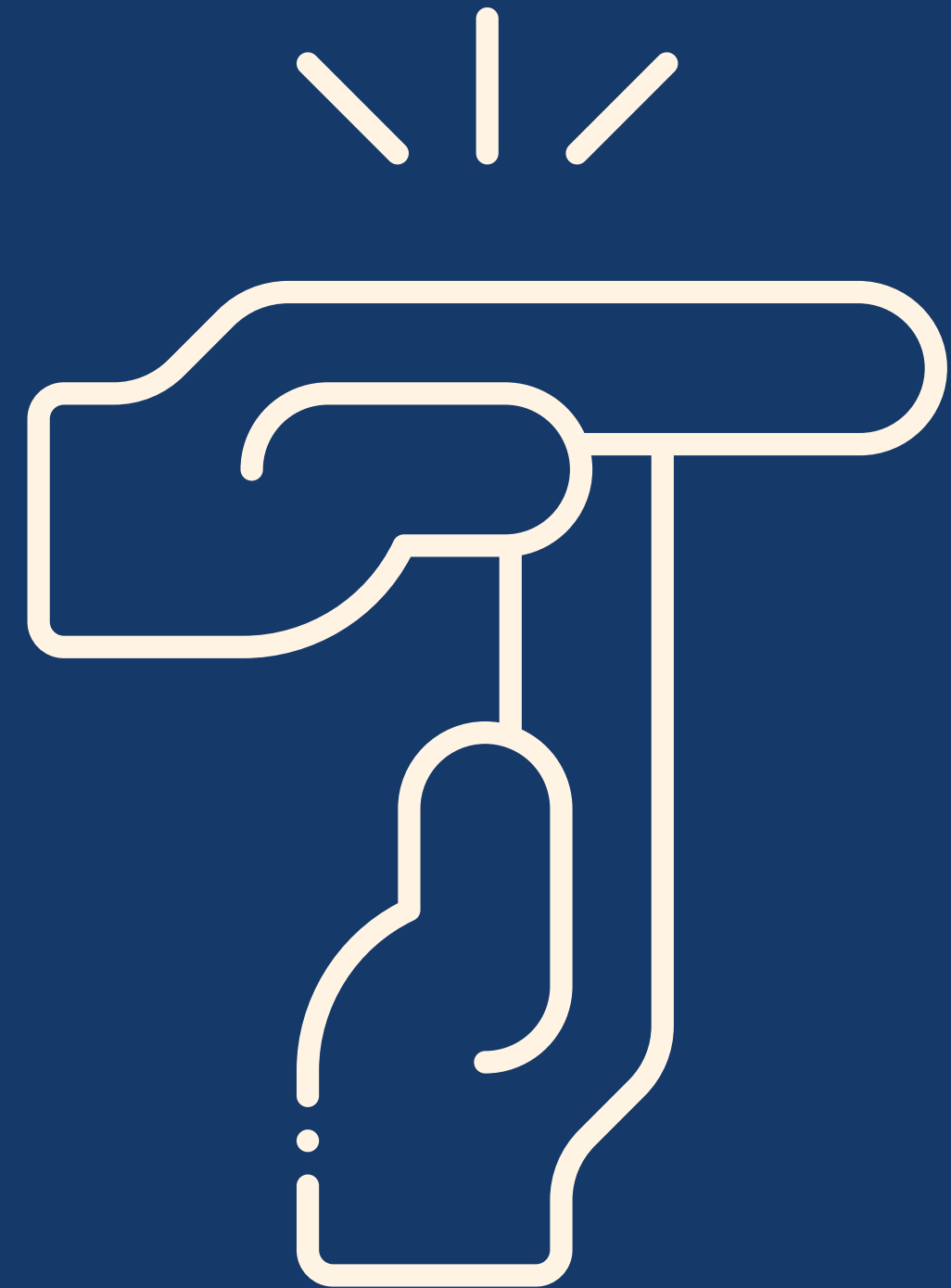
Are the selected **Key / Related concepts** relevant to **the new descriptor** to provide conceptual inquiry aligning with the new descriptor?



Do the **lines of Inquiry** align with the new descriptor providing Transdisciplinary opportunities?



Have you figured out which units are relevant, and which **need re-adjustments or replacements**?



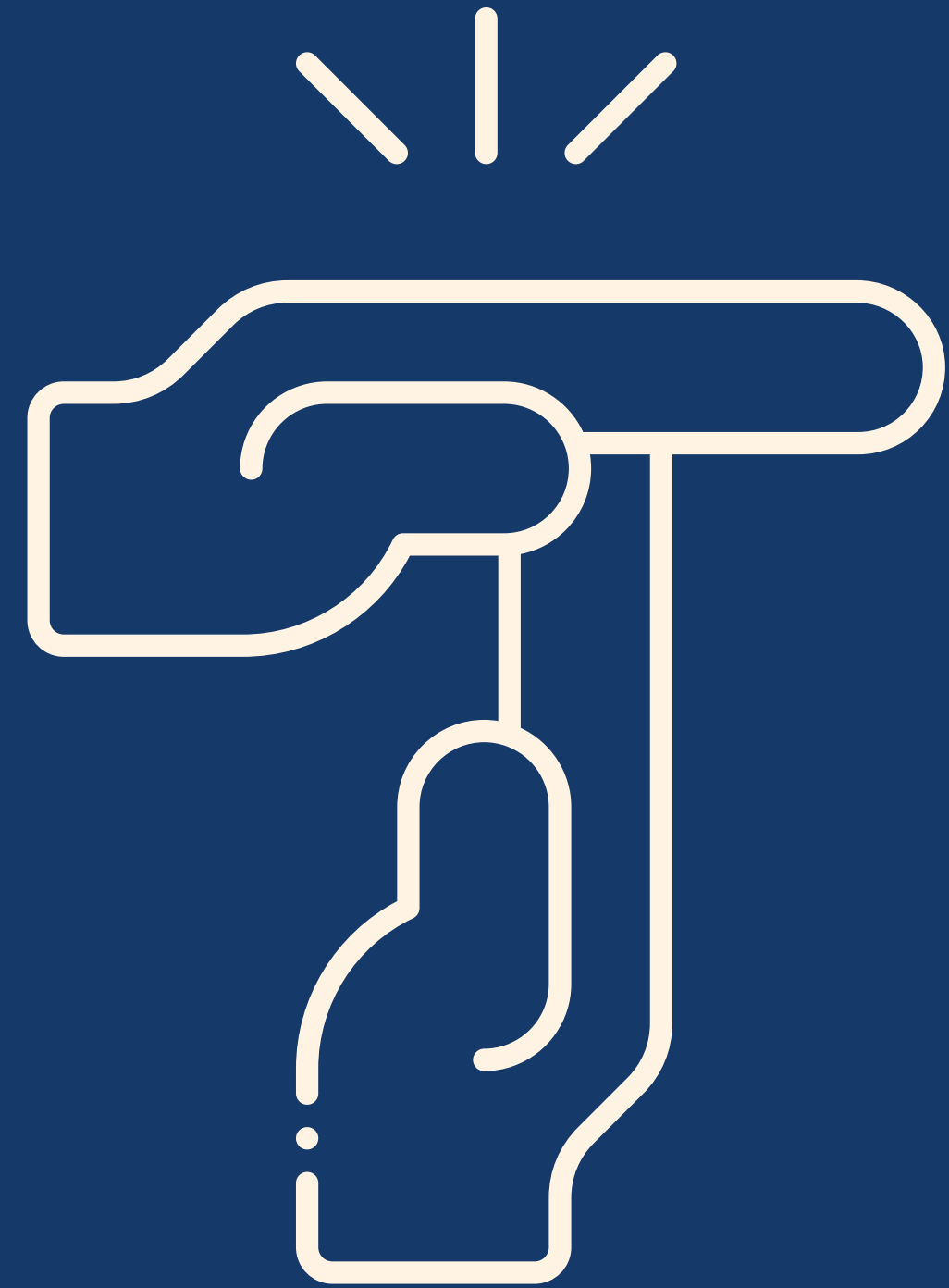
# Pause & Reflect

 How are science, social studies, language, math, and the arts integrated within each unit?

 Are subjects contributing meaningfully to the exploration of the descriptors?

 Are subject-specific skills and concepts embedded in a way that promotes depth of understanding?

 Does the POI allow for both transdisciplinary and subject-specific inquiries?



# Next Step.....

To adapt the POI with the new descriptors:

- Brainstorm: **Align all Central Ideas** with the new descriptors.
- Audit: **Identify gaps** where subcategories of the new descriptors are not fully addressed.
- Refine: **Revise central ideas and lines of inquiry** to align with the new descriptors, ensuring Transdisciplinary opportunities.
- Test: **Implement one adapted unit** and reflect on its effectiveness in integrating the new descriptors as a team.