

A young boy with dark hair is looking through a telescope made of cardboard. He is holding the telescope with both hands and looking intently. The background is slightly blurred, showing what appears to be a classroom or library setting with bookshelves. The entire image has a teal color overlay.

5^o

2017-2018

Thematic Scope and Sequence
English Pathway



Health and Well-Being

Fifth Grade

Magnetik® Understanding:
Making decisions influenced by social pressure
can negatively affect health.

Magnetik® Question:
How do we make decisions that positively affect our health?

Global Issue:
Addictions and eating disorders.

Challenge-Action Question:
What can I do to prevent addictions and eating disorders?



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Knotion® Subject	Topic	Learning Outcome	Content
 Language Mastery	<ul style="list-style-type: none"> • Tenses: Present Perfect 	Uses present perfect accurately.	<ul style="list-style-type: none"> • Present perfect with contractions.
	<ul style="list-style-type: none"> • Parts of Speech: Auxiliary Verb 'have' 	Uses the auxiliary verb 'have' with the present perfect.	<ul style="list-style-type: none"> • Auxiliary verb: have with the present perfect.
	<ul style="list-style-type: none"> • Proper Capitalization and Punctuation 	Uses proper capitalization and a variety of punctuation marks.	<ul style="list-style-type: none"> • Proper capitalization and a variety of punctuation marks accurately.
	<ul style="list-style-type: none"> • Word Structure: Prefixes em-, en-, trans- 	Recognizes and uses prefixes.	<ul style="list-style-type: none"> • Prefixes: en- and em- and trans-.
 Reading Skills	<ul style="list-style-type: none"> • Determining Importance 	States main idea and lists important details in informational and expository text, verbally or by using graphic organizers.	<ul style="list-style-type: none"> • Main idea and details.
 Writing Workshop	<ul style="list-style-type: none"> • Narrative: Biography 	Understands that a biography is a sequence of true events in a person's life.	<ul style="list-style-type: none"> • Write the events in a chronological order.
		Selects the most important moments and decisions to emphasize meaning.	<ul style="list-style-type: none"> • Summon information from documents and interviews.
 Communication	<ul style="list-style-type: none"> • Oral Communication 	Engages effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on fifth grade topics and texts, building on others' ideas and expressing his or her own clearly.	<ul style="list-style-type: none"> • Social interaction and balanced participation in conversation.
		Reports on a topic or text or presents an opinion, sequencing ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes.	<ul style="list-style-type: none"> • Oral presentations and class participation.
		Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.	<ul style="list-style-type: none"> • Effective communication of ideas.

Scientific Perspective



Knotion® Subject	Topic	Learning Outcome	Content
 Life Science	<ul style="list-style-type: none"> Health 	Argues what is needed to keep the major body systems healthy.	<ul style="list-style-type: none"> Health risks related to drug, tobacco, and alcohol use and abuse.
		Evaluates effect of tobacco, alcohol, and other addictive substances use.	<ul style="list-style-type: none"> Goals and health enhancing choices regarding use of tobacco, alcohol, and other addictive substances.
		Evaluates healthy and unhealthy eating patterns.	<ul style="list-style-type: none"> Eating patterns and healthy diet.
		Identifies practices to keep the endocrine and nervous systems healthy.	<ul style="list-style-type: none"> Healthy habits such as hygiene, diet, rest, and exercise.

Social Participation



Knotion® Subject	Topic	Learning Outcome	Content
 Citizenship Awareness	<ul style="list-style-type: none"> Civic Ideals, Cultural Principles, and Ethics 	Recognizes emotions and how they affect self and others.	<ul style="list-style-type: none"> Different types of emotions.
		Differentiates social factors that have significant impact on the risk of addiction for the general population.	<ul style="list-style-type: none"> Different social factors related to addictions and substance abuse.
		Analyzes and compares social connections and relationships with addictions and eating disorders.	<ul style="list-style-type: none"> Causes and consequences of addiction and eating disorders.
 Historical Awareness	<ul style="list-style-type: none"> Historical Chronology 	Explores how substance abuse, alcohol, and eating disorders treatments have changed over time.	<ul style="list-style-type: none"> Evolution of addictions and eating disorder treatments.



Knotion® Subject	Topic	Learning Outcome	Content
 Technology and Computational Thinking	<ul style="list-style-type: none"> • Technology in Making Decisions That Affect Health 	Identifies and understands the use of decision factors.	<ul style="list-style-type: none"> • Technology as a tool to help us make assertive decisions that impact our health.
		Operates algorithm-resolution applications.	
		Programs and interprets sequences of instructions.	



		Topic	Learning Outcome
 Heedfulness®		<ul style="list-style-type: none"> • The value of Gratitude 	<ul style="list-style-type: none"> • Reflexiona acerca del valor de la integridad. • Reflexiona sobre lo aprendido este año en Heedfulness® y cómo llevarlo a cabo en el mundo.
		<ul style="list-style-type: none"> • Harmony in the Nervous System 	<ul style="list-style-type: none"> • Recognizes that he or she experiences a wide range of emotions and that these influence how he or she perceives the world. • Learns what it means to 'Be in KnSync' and 'Out of KnSync'.
		<ul style="list-style-type: none"> • Recognizing my Emotions 	<ul style="list-style-type: none"> • Identifies the emotions he/she experiences.
		<ul style="list-style-type: none"> • The Importance of Recognizing my Emotions 	<ul style="list-style-type: none"> • Practices how he or she can increase the harmony of his or her nervous system, improving emotional stability, cognitive functioning and academic performance when entering into sync (KnSync). • Learns a wide variety of emotions he or she can experience to expand his or her emotional vocabulary.

		Topic	Learning Outcome
 Organik®		<ul style="list-style-type: none"> • Natural Resources (energy) 	<ul style="list-style-type: none"> • Makes observations, asks questions and tests predictions. • Collaborates with teammates and shares ideas. • Records data and draws conclusions. • Makes inferences and asks new questions to investigate further. • Identifies abiotic and biotic factors in an ecosystem (natural resources). • Identifies the interaction of abiotic and biotic factors in the ecosystem. • Recognizes the importance of recycling for the environment.



	Topic	Learning Outcome
Finance 	<ul style="list-style-type: none">• Investing and Saving	<ul style="list-style-type: none">• Understands the concept of investment.• Compares the risks and benefits of investing and saving money.



Biomes and Ecosystems

Fifth Grade

Magnetik® Understanding:

The wealth of an ecosystem is recognized by its biological diversity.

Magnetik® Question:

Why is biodiversity important?

Global Issue:

Biodiversity loss.

Challenge-Action Question:

What can I do to protect biodiversity and maintain the ecological balance?

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Knotion® Subject	Topic	Learning Outcome	Content
 Language Mastery	<ul style="list-style-type: none"> • Tenses: Present Perfect vs Past Simple 	Identifies and uses present perfect and past simple.	<ul style="list-style-type: none"> • Present perfect and past simple.
	<ul style="list-style-type: none"> • Sentence Structure: Adverbs 	Understands and uses adverbs of unidentified time.	<ul style="list-style-type: none"> • Adverbs of unidentified time: ever, never, already, yet, and just.
	<ul style="list-style-type: none"> • Root Words: geo, tele 	Recognizes that English words come from many different origins.	<ul style="list-style-type: none"> • Root words: geo, tele.
 Reading Skills	<ul style="list-style-type: none"> • Predicting 	Anticipates what will happen in a story based on details and background knowledge.	<ul style="list-style-type: none"> • Making predictions.
		Uses text and prior knowledge to make, confirm, or revise inferences and predictions.	<ul style="list-style-type: none"> • Predictions based on prior knowledge.
 Writing Workshop	<ul style="list-style-type: none"> • Informational: Essay 	Understands that an essay is a short literary composition which expresses the writer's point of view.	<ul style="list-style-type: none"> • Essays with the correct structure: introduction, body, and conclusion.
		Understands that an essay's purpose is to persuade the reader to think like the writer, make an improvement, or criticize an issue.	<ul style="list-style-type: none"> • Clear and proper arguments • Quotes to reinforce the arguments
 Communication	<ul style="list-style-type: none"> • Oral Communication 	Engages effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on fifth grade topics and texts, building on others' ideas and expressing his or her own clearly.	<ul style="list-style-type: none"> • Social interaction and balanced participation in a conversation.
		Reports on a topic or text or presents an opinion, sequencing ideas logically and using appropriate facts and relevant descriptive details to support main ideas or themes.	<ul style="list-style-type: none"> • Oral presentations and class participation.
		Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.	<ul style="list-style-type: none"> • Effective communication of ideas.

Scientific Perspective

Knotion® Subject	Topic	Learning Outcome	Content
 Life Science	<ul style="list-style-type: none"> Ecology 	<p>Recognizes that the edge environments occur naturally at many ecosystem boundaries increasing biodiversity.</p> <p>Evaluates factors that cause biodiversity loss and proposes solutions.</p> <p>Understands that habitat loss or fragmentation is frequently caused by human activity.</p> <p>Analyzes and evaluates the current rate of global diversity loss.</p>	<ul style="list-style-type: none"> Edge effect. Habitat fragmentation, habitat loss, and habitat degradation. Human activities such as agriculture, rural development, urbanization, and the creation of hydroelectric reservoirs that have caused habitat loss or fragmentation. A decline in species-specific habitat quality that leads to reduced survival and reproductive success in a population related to changes in food availability cover or climate.
 Earth Science	<ul style="list-style-type: none"> Earth's Systems 	<p>Explains how fossils provide important evidence of how environmental conditions have changed on the earth over time.</p>	<ul style="list-style-type: none"> Changes in atmospheric composition, movement of lithospheric plates.

Social Participation

Knotion® Subject	Topic	Learning Outcome	Content
 Environmental Awareness	<ul style="list-style-type: none"> Human Interaction With the Environment 	<p>Understands that human actions are also becoming major drivers of ecosystem change</p> <p>Analyzes and compares the relationship between wildlife and human activity in an ecosystem</p> <p>Recognizes that wildlife conservation indirectly plays a role and contributes the sustainability of the planet</p>	<ul style="list-style-type: none"> Drivers of ecosystem change. Wildlife in specific ecosystems. Wildlife conservation.
 Historical Awareness	<ul style="list-style-type: none"> Historical Chronology 	<p>Describes how ecosystems have changed over time</p>	<ul style="list-style-type: none"> Ecosystems changes over time.



Knotion® Subject	Topic	Learning Outcome	Content
 Technology and Computational Thinking	<ul style="list-style-type: none"> Technology to Disseminate Information on the Importance of Biosiversity 	Programs and encodes instruction sequences.	<ul style="list-style-type: none"> The use of browsers, tools and applications to identify the importance of biodiversity and ecosystem care.
		Uses digital media for the transmission of information.	
		Identifies the concept of procedures and functions.	
		Identifies and classifies information according to its type through the use of programs.	



		Topic	Learning Outcome
Heedfulness® 		<ul style="list-style-type: none"> Emotions that Help me to be in KnSync 	<ul style="list-style-type: none"> Recognizes how emotions can influence his or her performance. Reflects upon the impact caused by being in and out of KnSync in his/her life.
		<ul style="list-style-type: none"> Cortical Facilitation 	<ul style="list-style-type: none"> Recognizes what it is like to be in KnSync and how it helps him or her in his or her life. Identifies what cortical inhibition is and how it affects learning, as well as what cortical facilitation is and how it benefits learning. Learns how his or her brain and heart communicate constantly through the autonomic nervous system to regulate all body functions.
		<ul style="list-style-type: none"> My Heart and my Brain Communicate 	<ul style="list-style-type: none"> Learns how his or her brain and heart communicate constantly through the autonomic nervous system to regulate all body functions. Reinforces what the function of the autonomic nervous system is and how it communicates with the brain and heart.
		<ul style="list-style-type: none"> How my Emotions Change During the Day 	<ul style="list-style-type: none"> Learns how appreciation helps him or her get into KnSync in order to learn. Uses the climate as a metaphor on how emotions change during the day. Identifies exhausting emotions and renewing emotions.

		Topic	Learning Outcome
Organik® 		<ul style="list-style-type: none"> Natural Resources (energy) 	<ul style="list-style-type: none"> Makes observations, asks questions and tests predictions. Collaborates with teammates and shares ideas. Records data, draws conclusions and makes inferences. Distinguishes the interaction of abiotic and biotic factors in an ecosystem. Identifies nutrients in garden products. Understands the importance of recycling for the environment.



	Topic	Learning Outcome
Finance 	<ul style="list-style-type: none">Investing, Saving and Economic problems	<ul style="list-style-type: none">Recognizes the importance of saving and investing in the long term starting at an early age.Identifies the most common causes of the economic problems in the community.



Science, Technology, and Innovation

Fifth Grade

Magnetik[®] Understanding:

Using information and communication technologies responsibly keeps us safe.

Magnetik[®] Question:

How can we use information and communication technologies safely?

Global Issue:

Network risks.

Challenge-Action Question:

How can I responsibly use information and communication technologies?

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Knotion® Subject	Topic	Learning Outcome	Content
 Language Mastery	<ul style="list-style-type: none"> Punctuation: Commas 	Uses commas appropriately.	<ul style="list-style-type: none"> Uses commas to introduce clauses.
	<ul style="list-style-type: none"> Sentence Structure: Dependent and Independent Clauses 	Identifies and uses dependent and independent clauses.	<ul style="list-style-type: none"> Identifies and uses dependent and independent clauses with accurate punctuation.
	<ul style="list-style-type: none"> Sentence Structure: Subject-Verb Agreement 	Respects subject-verb agreement in present tenses.	<ul style="list-style-type: none"> Subject-verb agreement .
	<ul style="list-style-type: none"> Sentence Structure: Sequencing Words 	Uses sequencing words with increased accuracy.	<ul style="list-style-type: none"> Sequencing words (first, then, after, after that, next, finally).
	<ul style="list-style-type: none"> Word Structure: Suffixes -ship, -less 	Identifies and uses suffixes.	<ul style="list-style-type: none"> Suffixes: -ship, -less.
 Reading Skills	<ul style="list-style-type: none"> Summarizing and Synthesizing 	Summarizes and synthesizes information or ideas from a text to prove understanding of the reading material.	<ul style="list-style-type: none"> Summarizing and synthesizing.
 Writing Workshop	<ul style="list-style-type: none"> Informational: Expository Nonfiction Science Report 	Understands that the purpose of informational texts is to teach readers about a specific topic in an interesting way, giving real facts.	<ul style="list-style-type: none"> Science report.
 Communication	<ul style="list-style-type: none"> Oral Communication 	Engages effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on fifth grade topics and texts, building on others' ideas and expressing his or her own clearly.	<ul style="list-style-type: none"> Social interaction and balanced participation in conversation.
		Reports on a topic or text or presents an opinion, sequencing ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes.	<ul style="list-style-type: none"> Oral presentations and class participation.
		Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.	<ul style="list-style-type: none"> Effective communication of ideas.

Scientific Perspective



Knotion® Subject	Topic	Learning Outcome	Content
 Physical Science	<ul style="list-style-type: none"> • Motion, Forces, and Interactions 	Identifies and explains properties of magnets.	<ul style="list-style-type: none"> • Properties of magnets.
		Experiments with magnets to make things move without touching them.	<ul style="list-style-type: none"> • Magnetic poles.
	<ul style="list-style-type: none"> • Energy 	Understands that energy has different forms and provides examples.	<ul style="list-style-type: none"> • Forms of energy (Examples: potential, kinetic).
		Describes a simple open or closed electrical circuit (Example: battery or generator, wire, a complete loop through which the electrical current can pass)	<ul style="list-style-type: none"> • Electrical circuit.
		Distinguishes parallel and series circuits.	<ul style="list-style-type: none"> • Representation of a parallel or series circuit.
		Understands that there is a relationship between electric currents and magnetic fields.	<ul style="list-style-type: none"> • Relationship between electric currents and magnetic fields
Recognizes the uses of electromagnets	<ul style="list-style-type: none"> • Electromagnets. 		

Social Participation



Knotion® Subject	Topic	Learning Outcome	Content
 Citizenship Awareness	<ul style="list-style-type: none"> • Civic Ideals, Cultural Principles, and Ethics 	Understands that some new technologies poses a risk to individual privacy and recognizes online information that can and cannot be shared	<ul style="list-style-type: none"> • Digital responsibility and risks to privacy, security, and copyrights.
		Understands that online communication is the exchange of information to interact effectively, in order to collaborate appropriately	<ul style="list-style-type: none"> • Digital responsibility and information exchange and collaboration.
		Understands how to manage passwords protecting oneself from others, protecting the devices, and knowing when to ask for help.	<ul style="list-style-type: none"> • Digital responsibility and managing passwords and personal information.
		Identifies rights and responsibilities, and acts in a responsible, legal, and ethical manner when it comes to using and sharing content online.	<ul style="list-style-type: none"> • Digital responsibility and legal procedures to share content online.
		Knows and understands how to respond to, prevent, and deal with unwanted or aggressive online attention.	<ul style="list-style-type: none"> • Digital responsibility and inappropriate online interaction.
		Understands the rights and responsibilities of a digital citizen.	<ul style="list-style-type: none"> • Digital responsibility and users' rights and responsibilities.



Knotion® Subject	Topic	Learning Outcome	Content
 Technology and Computational Thinking	<ul style="list-style-type: none"> Information Technologies, Communication and Data Security 	Recognizes methods for safe browsing.	<ul style="list-style-type: none"> Information communication tools and safe navigation.
		Identifies the principles of information security.	
		Uses digital tools to produce audiovisual content material.	
		Uses the fundamentals of structured programming.	



		Topic	Learning Outcome
Heedfulness® 		• The Value of Kindness	• Reflects on the value of kindness.
		• Function of the Amygdala	• Learns about the function of the amygdala.
		• Exhausting Emotions and Renewing Emotions	<ul style="list-style-type: none"> • Learns how emotions affect learning. • Recognizes situations that trigger exhausting or renewing emotions.
		• My Emotions can Affect my Behavior and my Decision-Making	<ul style="list-style-type: none"> • Explores how situations activate different emotional responses. • Learns the impact of emotions on his or her behavior and on making his or her decisions. • Identifies the responsibilities of each of the roles of teamwork.
		• Team Roles for a More Successful Performance	• Identifies the responsibilities of each of the roles of teamwork.

		Topic	Learning Outcome
Organik® 		• Natural Resources (energy)	<ul style="list-style-type: none"> • Makes observations, asks questions and tests predictions. • Collaborates with teammates and shares ideas. • Records data, draws conclusions and makes inferences. • Understands that energy can be transformed and stored. • Observes and examine a plant's growth process. • Classifies items to be recycled.



	Topic	Learning Outcome
Finance 	<ul style="list-style-type: none">• Investing	<ul style="list-style-type: none">• Recognizes the differences between short-term and long-term investments.



Origins and Cultural Diversity

Fifth Grade

Magnetik® Understanding:
Art is a form of cultural expression.

Magnetik® Question:
How does art reflect culture and give form to culture?

Global Issue:
Lack of freedom of speech.

Challenge-Action Question:
How can I spread my culture through art?



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Knotion® Subject	Topic	Learning Outcome	Content
 Language Mastery	<ul style="list-style-type: none"> • Sentence Structure: too/enough 	Use of 'too' and 'enough' for quantities.	<ul style="list-style-type: none"> • Uses too and enough for describing quantities.
	<ul style="list-style-type: none"> • Word Meaning: Root Words: photo, graph 	Recognizes that English words come from many different origins.	<ul style="list-style-type: none"> • Root words: photo, graph.
	<ul style="list-style-type: none"> • Parts of Speech: Definite and Indefinite Articles 	Uses the definite and indefinite articles.	<ul style="list-style-type: none"> • Definite and indefinite articles: a, an, the.
	<ul style="list-style-type: none"> • Sentence Structure: Passive Voice 	Understands and uses the passive voice	<ul style="list-style-type: none"> • Understands and uses the passive voice in simple present and past.
 Reading Skills	<ul style="list-style-type: none"> • Inferring 	Combines schema, and clues in the text to figure out theme, main ideas, problems and solutions, and other important information in a story.	<ul style="list-style-type: none"> • Making inferences.
 Writing Workshop	<ul style="list-style-type: none"> • Poetry: Poem Rhyme 	Understands that there are different kinds of poems and can take a variety of shapes.	<ul style="list-style-type: none"> • Poems.
		Uses poetic techniques like repetition and rhythm.	<ul style="list-style-type: none"> • Rhyming.
 Communication	<ul style="list-style-type: none"> • Oral Communication 	Engages effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on fifth grade topics and texts, building on others' ideas and expressing his or her own clearly.	<ul style="list-style-type: none"> • Social interaction and balanced participation in conversation.
		Reports on a topic or text or presents an opinion, sequencing ideas logically and using appropriate facts and relevant descriptive details to support main ideas or themes.	<ul style="list-style-type: none"> • Oral presentations and class participation.
		Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.	<ul style="list-style-type: none"> • Effective communication of ideas.

Scientific Perspective



Knotion® Subject	Topic	Learning Outcome	Content
 Physical Science	<ul style="list-style-type: none"> Matter and Its Interactions 	Explains that matter has different states (Example: solid, liquid and gas) and that each state has distinct physical properties.	<ul style="list-style-type: none"> States of matter and physical properties.
		Describes objects by the properties of the materials from which they are made and that these properties can be used to separate or sort a group of objects (Example: paper, glass, plastic, metal).	<ul style="list-style-type: none"> Properties of matter.
		Identifies mixtures and separates some of them into their component parts.	<ul style="list-style-type: none"> Mixtures and separate them into their component parts through filtering and evaporation.
		Identifies characteristics of a simple chemical change.	<ul style="list-style-type: none"> Chemical change.
		Describes, qualitatively, the concentration of a solution.	<ul style="list-style-type: none"> Types of solutions: saturated, unsaturated.

Social Participation



Knotion® Subject	Topic	Learning Outcome	Content
 Citizenship Awareness	<ul style="list-style-type: none"> Civic Ideals, Cultural Principles and Ethics 	Identifies and explores different art forms.	<ul style="list-style-type: none"> Different art forms.
		Analyzes how art impacts personal choices.	<ul style="list-style-type: none"> Artistic expression on people and society.
		Evaluates the importance of art in expressing ideas and feelings.	<ul style="list-style-type: none"> Ideas and feelings through art.
		Recognizes art expressing controversial points of view.	<ul style="list-style-type: none"> Artistic expressions with different points of view.
 Historical Awareness	<ul style="list-style-type: none"> Causes and Consequences of Historical Events 	Examines historical events when artworks were destroyed or prohibited.	<ul style="list-style-type: none"> Art censorship in history.



Knotion® Subject	Topic	Learning Outcome	Content
 Technology and Computational Thinking	<ul style="list-style-type: none"> Information Technologies for Cultural Expression 	Sorts information obtained through software.	<ul style="list-style-type: none"> The use of applications for publishing information and dissemination of art. Browsers and tools for creating multimedia content.
		Uses digital tools to produce audiovisual content material.	
		Classifies information through the use of software.	
		Identifies the technological means of information dissemination.	



		Topic	Learning Outcome
Heedfulness® 	• Hearth Shift Technique to be in Harmony	• Learns a breathing technique to be in harmony. • Discovers the physical importance of oxygen in his or her body.	
	• Coherence and Resilience	• Increases his or her emotional coherence and resilience. • Transforms exhausting emotions into emotions of happiness.	
	• The Value of Love	• Recognizes the importance of the value of love in his or her life. • Recognizes what it is like to feel love.	
	• Emotions Produce Reactions in the Body	• Understands how emotions affect the heart rate. • Identifies the reactions that emotions cause in his or her body.	
	• Frequent Emotions	• Recognizes the most frequent emotions he or she experiences and how to react to them.	
	• Teamwork	• Identifies the responsibilities of each of the roles of teamwork. • Learns different roles that help in team activities. Fulfills these roles, and manages to work cooperatively.	
	• Happiness	• Recognizes what people do to live happily. • Associates previous experiences with emotions such as happiness.	

		Topic	Learning Outcome
Organik® 	• Natural Resources (energy)	<ul style="list-style-type: none"> • Makes observations, asks questions and tests predictions. • Collaborates with teammates and shares ideas. • Records data, draw conclusions and makes inferences. • Understands that energy can be transformed and stored. • Recognizes specific properties of abiotic factors for plant growth (e.g. soil permeability). • Recognizes specific properties of abiotic factors for plant growth (e.g. temperature and pH). • Discusses the importance of recycling for the environment. 	



	Topic	Learning Outcome
Finance 	<ul style="list-style-type: none">• Opportunities	<ul style="list-style-type: none">• Creates opportunities in order to obtain more income.• Creates opportunities in order to reduce expenditures.



Productivity and Economy

Fifth Grade

Magnetik® Understanding:

They way people plan their budget affects their lifestyle.

Magnetik® Question:

Why is it important for us to make a personal budget?

Global Issue:

Consumerism.

Challenge-Action Question:

**How to organize our personal finances
and avoid consumerism?**

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Knotion® Subject	Topic	Learning Outcome	Content
 Language Mastery	<ul style="list-style-type: none"> Parts of Speech: Modal Verbs 	Uses modal verbs to make polite requests and ask for permission.	<ul style="list-style-type: none"> Modal verbs: can, may, could.
	<ul style="list-style-type: none"> Capitalization and Punctuation: Dialogue 	Uses punctuation and capitalization correctly in dialogue.	<ul style="list-style-type: none"> Uses punctuation and capitalization correctly in interrupted and uninterrupted dialogue.
 Reading Skills	<ul style="list-style-type: none"> Making Connections 	Makes connections among the ideas in a text and among other texts.	<ul style="list-style-type: none"> Connections among ideas in a text.
		Shows connections between the setting, characters, and events of a text and reader's own personal experiences.	<ul style="list-style-type: none"> Connections between setting, characters and events on a text.
 Writing Workshop	<ul style="list-style-type: none"> Opinion and Argumentative Essay 	Develops the topic with facts, definitions, concrete details, quotations, or other information and examples related to the topic.	<ul style="list-style-type: none"> Evidence from literary or informational texts to support analysis, reflection, and research.
 Communication	<ul style="list-style-type: none"> Oral Communication 	Engages effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on fifth grade topics and texts, building on others' ideas and expressing his or her own clearly.	<ul style="list-style-type: none"> Social interaction and balanced participation in conversation.
		Reports on a topic or text or presents an opinion, sequencing ideas logically and using appropriate facts and relevant descriptive details to support main ideas or themes.	<ul style="list-style-type: none"> Oral presentations and class participation.
		Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.	<ul style="list-style-type: none"> Effective communication of ideas.

Scientific Perspective



Knotion® Subject	Topic	Learning Outcome	Content
 Physical Science	<ul style="list-style-type: none"> Energy 	Understands that energy is a natural resource that has many forms and can be transformed, transferred, and stored.	<ul style="list-style-type: none"> Renewable energy is energy: solar power, wind power, hydroelectricity. Micro hydro, biomass and biofuels for transportation.
		Knows that energy can be transferred from one object to another.	<ul style="list-style-type: none"> Energy transfer.
		Explains that the energy found in nonrenewable resources such as fossil fuels (Example: oil, coal, natural gas) originally came from the Sun and may renew slowly over millions of years.	<ul style="list-style-type: none"> Nonrenewable resources.
		Explains that energy derived from renewable resources such as wind and water is assumed to be available indefinitely.	<ul style="list-style-type: none"> Renewable resources.
		Describes how renewable and nonrenewable energy resources (fossil fuels, trees, water) can be managed.	<ul style="list-style-type: none"> Energy management.

Social Participation



Knotion® Subject	Topic	Learning Outcome	Content
 Environmental Awareness	<ul style="list-style-type: none"> Economic Concepts and Activities 	Knows the relationship of the components of a simple spending plan and how that relationship allows for managing income, expenses, and savings.	<ul style="list-style-type: none"> Managing income, expenses, and savings.
		Explains the responsibilities associated with managing personal finances	<ul style="list-style-type: none"> Savings, checking, credit, non cash systems.
		Evaluates the cost and benefits of spending, borrowing, and saving.	<ul style="list-style-type: none"> Advantages and disadvantages of borrowing.
		Explains the importance of developing a basic budget for spending and saving.	<ul style="list-style-type: none"> Creating and managing a personal budget.
		Compares spending and saving opportunities.	<ul style="list-style-type: none"> Spending versus saving.
	<ul style="list-style-type: none"> Economic Issues 	Debates about how our life style choices contribute to global economy.	<ul style="list-style-type: none"> Life styles and the impact on economy.
Identifies and explains consumerism.	<ul style="list-style-type: none"> Problems produced by consumerism. 		
 Historical Awareness	<ul style="list-style-type: none"> Historical Chronology 	Recognizes how consumerism has changed over time.	<ul style="list-style-type: none"> Consumerism and how it has changed in time.



Knotion® Subject	Topic	Learning Outcome	Content
 Technology and Computational Thinking	• Technology for Calculation and Budget Creation	Recognizes the basic spreadsheet concepts.	• The use of spreadsheets for handling numerical data.
		Sorts and classifies numeric information.	
		Writes mathematical operations using software.	
		Manipulates and organizes numeric data.	



		Topic	Learning Outcome
Heedfulness® 	• Reaction to Stress	<ul style="list-style-type: none"> Identifies how some people act when they are under stress. Learns the different ways people respond to stress. 	
	• Identify Stress Situations	<ul style="list-style-type: none"> Learns to recognize situations and thoughts that trigger stressful reactions. Identifies when to use the Heedfulness techniques to handle stress. 	
	• Respond in a More Beneficial way to Stress	<ul style="list-style-type: none"> Recognizes that he or she has the power to choose to respond in a more beneficial way to stress for him or her and for others. 	

		Topic	Learning Outcome
Organik® 	• Natural Resources (energy)	<ul style="list-style-type: none"> Makes observations, asks questions and tests predictions. Collaborates with teammates and shares ideas. Records data, draws conclusions and makes inferences. Recognizes the added value of processed food versus raw garden produce. Plans and organizes a scientific investigation. Creates a design with recycled items. 	



	Topic	Learning Outcome
Finance 	<ul style="list-style-type: none">• Taxes	<ul style="list-style-type: none">• Identifies the purpose of taxes.• Recognizes and calculates the most common local taxes.



Power, Authority, and Civil Ideals

Fifth Grade

Magnetik[®] Understanding:

In a democratic society the Constitution is the supreme law that guarantees human rights.

Magnetik[®] Question:

How does the Constitution guarantee the observance of our rights?

Global Issue:

Lack of observance of human rights.

Challenge-Action Question:

What can I do to guarantee that human rights are respected in my community?

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Knotion® Subject	Topic	Learning Outcome	Content
 Language Mastery	<ul style="list-style-type: none"> Word Structure: Comparative and Superlative Adjectives, and Comparatives of Equality 	Uses comparatives and superlatives adjectives and understands comparatives of equality.	<ul style="list-style-type: none"> Comparatives and superlatives, comparatives of equality: as, as much, or many as.
	<ul style="list-style-type: none"> Root Words: ject, com 	Recognizes that English words come from many different origins.	<ul style="list-style-type: none"> Root words: ject, com.
	<ul style="list-style-type: none"> Punctuation 	Understands and uses complex punctuation.	<ul style="list-style-type: none"> Punctuation: colons, semicolons, hyphens.
 Reading Skills	<ul style="list-style-type: none"> Asking Questions 	Generates and answers questions about the text before, during, and after reading to aid comprehension.	<ul style="list-style-type: none"> Asking questions.
 Writing Workshop	<ul style="list-style-type: none"> Writing Opinion: Debate Speech 	Engages the reader with ideas that show strong knowledge of the topic.	<ul style="list-style-type: none"> Knowledge of the topic.
		Provides supporting details that are accurate, relevant, and helpful.	<ul style="list-style-type: none"> Supporting details.
 Communication	<ul style="list-style-type: none"> Oral Communication 	Engages effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on fifth grade topics and texts, building on others' ideas and expressing his or her own clearly.	<ul style="list-style-type: none"> Social interaction and balanced participation in conversation.
		Reports on a topic or text or presents an opinion, sequencing ideas logically and using appropriate facts and relevant descriptive details to support main ideas or themes.	<ul style="list-style-type: none"> Oral presentations and class participation.
		Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.	<ul style="list-style-type: none"> Effective communication of ideas.

Scientific Perspective



Knotion® Subject	Topic	Learning Outcome	Content
 Physical Science	<ul style="list-style-type: none"> • Energy 	Understands that sound is a form of energy that travels in waves.	<ul style="list-style-type: none"> • Sound waves.
		Understands that sound waves can travel through different mediums.	<ul style="list-style-type: none"> • Sound travels through solids, liquids, and gases.
		Recognizes the use of sound waves in communication devices .	<ul style="list-style-type: none"> • How a telephone, or telegraph, or sonar, or radio works using sound waves.
		Describes that changing the rate of vibration can vary the pitch of a sound.	<ul style="list-style-type: none"> • Frequency as the pitch of a sound.

Social Participation



Knotion® Subject	Topic	Learning Outcome	Content
 Citizenship Awareness	<ul style="list-style-type: none"> • Government Organization, Laws, and Political Systems 	Recognizes that citizens' rights and responsibilities are outlined in the Constitution.	<ul style="list-style-type: none"> • The Constitution and how it guarantees citizens' rights and establishes responsibilities.
		Analyzes and evaluates different types of government.	<ul style="list-style-type: none"> • Types of government: monarchy, democracy, etc.
	<ul style="list-style-type: none"> • International Relationships and Foreign Policy 	Debates how civil rights are fulfilled in other types of government besides democracy.	<ul style="list-style-type: none"> • Civil rights in different types of government.
	<ul style="list-style-type: none"> • Civic Involvement 	Understands that citizens have an obligation to uphold the Constitution by obeying laws, paying taxes, and respecting the rights of others.	<ul style="list-style-type: none"> • Citizens' responsibilities in a democratic government.
		Identifies and explains citizens' rights and responsibilities in a democratic government.	<ul style="list-style-type: none"> • Citizens' rights and responsibilities in a democratic government.



Knotion® Subject	Topic	Learning Outcome	Content
 Technology and Computational Thinking	<ul style="list-style-type: none"> • Technology as a Means to Guarantee the Rights of People 	Recognizes concepts of intermediate programming (cycle, loops, parameters).	<ul style="list-style-type: none"> • Use of content creation software to make information about rights and laws.
		Uses digital tools to produce audiovisual content material for dissemination.	
		Programs intermediate level structured algorithms.	



		Topic	Learning Outcome
Heedfulness® 		<ul style="list-style-type: none"> • Freeze Frame technique 	<ul style="list-style-type: none"> • Learns the “Freeze Fame” technique to take a mental and emotional time out, which will allow him or her to take distance to see look at his or her problems without the disturbance of interference and confusion.
		<ul style="list-style-type: none"> • The value of Truthfulness 	<ul style="list-style-type: none"> • Reflects upon the value of truthfulness • Learns what it means to be sincere and and to encourage truthfulness in his or her life.
		<ul style="list-style-type: none"> • Prepare for Success, being in Kn-sync 	<ul style="list-style-type: none"> • Learns that in order to be successful doing “Prep” requires practice, reminders and motivation, therefore, being more in Kn-sync. • Develops habits from the heart to join academic and emotional learning.

		Topic	Learning Outcome
Organik® 		<ul style="list-style-type: none"> • Natural Resources (energy) 	<ul style="list-style-type: none"> • Makes observations, asks questions and tests predictions. • Collaborates with teammates and shares ideas. • Records data and draws conclusions. • Establishes and analyzes the impact of human activity on natural resources (e.g. oceans lakes and rivers pollution). • Evaluates the development of biotic factors in an ecosystem. • Establishes and analyzes the impact of human activity on natural resources (e.g. air pollution). • Evaluates different regulations of the neighbor countries’ recycling program. • Analyzes the importance of taking care of living and nonliving things in the garden.



	Topic	Learning Outcome
Finance 	<ul style="list-style-type: none">• Currency	<ul style="list-style-type: none">• Understands that each country has different currencies.



Crisis and Conflict Resolution

Fifth Grade

Magnetik® Understanding:

Armed conflicts and natural disasters exacerbate social inequalities and vulnerabilities.

Magnetik® Question:

How do natural disasters and armed conflicts affect us?

Global Issue:

Human Rights violations.

Challenge-Action Question:

What can I do to promote a more just and solidary society?

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Knotion® Subject	Topic	Learning Outcome	Content
 Language Mastery	<ul style="list-style-type: none"> Parts of Speech: Reported Speech 	Uses reported speech.	<ul style="list-style-type: none"> Reported speech with verbs say and tell.
	<ul style="list-style-type: none"> Sentence Structure: Compound Sentences 	Recognizes and forms compound sentences.	<ul style="list-style-type: none"> Compound sentences with independent clauses, coordinators, and a comma.
	<ul style="list-style-type: none"> Word Meaning: Homographs and Homophones 	Recognizes and uses homophones with the long vowel sounds.	<ul style="list-style-type: none"> Homophones with the long vowel sounds: 'i' and 'o'.
 Reading Skills	<ul style="list-style-type: none"> Visualizing 	Writes about, or verbally describes the mental images that occur while reading to improve reading comprehension.	<ul style="list-style-type: none"> Visualizing.
 Writing Workshop	<ul style="list-style-type: none"> Extended Response (story) 	Understands that narrative fiction is created in the imagination of the author.	<ul style="list-style-type: none"> Narrative fiction.
		Understands the elements of fiction, including setting, problem, characters, and problem resolution.	<ul style="list-style-type: none"> Elements of narrative fiction.
 Communication	<ul style="list-style-type: none"> Oral Communication 	Engages effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on fifth grade topics and texts, building on others' ideas and expressing his or her own clearly.	<ul style="list-style-type: none"> Social interaction and balanced participation in conversation.
		Reports on a topic or text or presents an opinion, sequencing ideas logically and using appropriate facts and relevant descriptive details to support main ideas or themes.	<ul style="list-style-type: none"> Oral presentations and class participation.
		Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.	<ul style="list-style-type: none"> Effective communication of ideas.

Scientific Perspective



Knotion® Subject	Topic	Learning Outcome	Content
 Earth Science	<ul style="list-style-type: none"> • Earth's Systems 	Understands the interaction of Earth's major systems: geosphere, the hydrosphere, the atmosphere, and the biosphere.	<ul style="list-style-type: none"> • Geosphere, biosphere, hydrosphere, atmosphere.
		Explains how water and wind change the Earth's surface.	<ul style="list-style-type: none"> • Erosion made by water and wind.
		Evaluates risk drivers and how hazards can become disasters.	<ul style="list-style-type: none"> • Natural disasters.
		Explores impacts of natural hazards and climate change on past civilizations.	<ul style="list-style-type: none"> • Earth history and natural hazards and climate change in the past.

Social Participation



Knotion® Subject	Topic	Learning Outcome	Content
 Citizenship Awareness	<ul style="list-style-type: none"> • Civic Ideals, Cultural Principles, and Ethics 	Evaluates different impacts of natural disasters on urban and rural communities.	<ul style="list-style-type: none"> • Vulnerable social groups impacts natural disasters in different types of communities.
		Recognizes the relationship between human rights and human needs during and after natural disasters.	<ul style="list-style-type: none"> • Relationship between human rights and human needs during and after natural disasters.
 Historical Awareness		Identifies past major national and community disasters and good practices.	<ul style="list-style-type: none"> • Natural disasters over time.



Knotion® Subject	Topic	Learning Outcome	Content
 Technology and Computational Thinking	<ul style="list-style-type: none"> Digital Communication and Information Dissemination 	Recognizes concepts of intermediate programming (conditionals, decision making, loops).	<ul style="list-style-type: none"> The use of digital tools in the mediation of communication to resolve conflicts and make decisions.
		Identifies the concepts of loops and routines.	
		Solves structured problems using algorithmic logic.	
		Uses digital media for the transmission of information.	



		Topic	Learning Outcome
Heedfulness® 		• Trust	• Reflects upon trust, trust in himself or herself and trust in others.
		• The Communication Guidelines	• Learns and practices the 5 communication guidelines.
		• Cooperation and Teamwork	• Develops sensitivity to movement, cooperative skills, teamwork and sincere listening.
		• Situations Inside and Outside my Control	• Identifies whether something is within his or her control or not, which is useful for students with anxiety, anger, lack of focus, motivation or other social and emotional concerns.

		Topic	Learning Outcome
Organik® 		• Natural Resources (energy)	<ul style="list-style-type: none"> • Makes observations, asks questions and tests predictions. • Collaborates with teammates and shares ideas. • Records data, draws conclusions and makes inferences. • Identifies garden pests and learns how to control them organically. • Propose ways to improve the development and growth of biotic factors. • Recognizes the environmental impact of common chemicals and demonstrates how they can be replaced. • Analyzes environmental conflicts when recycling is not properly carried out.



	Topic	Learning Outcome
Finance 	<ul style="list-style-type: none">• Currency and Exchange Rate	<ul style="list-style-type: none">• Recognizes the concept of exchange rate for different currencies.



Environment and Sustainability

Fifth Grade

Magnetik® Understanding:
Government and people's participation reduces environmental problems.

Magnetik® Question:
What traits do we share with all living beings and how do we all relate?

Global Issue:
The impact of human activity on the living beings.

Challenge-Action Question:
What can I do to protect the plants and animals in my community?



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Knotion® Subject	Topic	Learning Outcome	Content
 Language Mastery	<ul style="list-style-type: none"> Sentence Structure: Second Conditional 	<p>Understands the concept of second conditional.</p>	<ul style="list-style-type: none"> Second conditional to talk about things in the future that are probably not going to be true, or to talk about something in the present which is impossible, because it's not true.
	<ul style="list-style-type: none"> Word Structure: Abbreviations 	<p>Recognizes and uses abbreviations for weight and measurement.</p>	<ul style="list-style-type: none"> Abbreviations for weight and measurement (Examples: kg, cm, ml).
	<ul style="list-style-type: none"> Word Structure: Suffix 	<p>Recognizes and uses suffixes.</p>	<ul style="list-style-type: none"> Suffixes: -ious, -sion.
 Reading Skills	<ul style="list-style-type: none"> Monitoring and Checking 	<p>Asks and answers questions before, during, and after read aloud, instruction or practice time, and independent reading to make sure understanding of a text</p>	<ul style="list-style-type: none"> Monitor and Checking.
 Writing Workshop	<ul style="list-style-type: none"> Informational: Literary Nonfiction 	<p>Understands that a literary non fiction text explains and gives facts about a specific topic in an interesting way.</p>	<ul style="list-style-type: none"> Essay.
 Communication	<ul style="list-style-type: none"> Oral Communication 	<p>Engages effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on fifth grade topics and texts, building on others' ideas and expressing his or her own clearly.</p>	<ul style="list-style-type: none"> Social interaction and balanced participation in conversation.
		<p>Reports on a topic or text or presents an opinion, sequencing ideas logically and using appropriate facts and relevant descriptive details to support main ideas or themes.</p>	<ul style="list-style-type: none"> Oral presentations and class participation.
		<p>Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.</p>	<ul style="list-style-type: none"> Effective communication of ideas.

Scientific Perspective



Knotion® Subject	Topic	Learning Outcome	Content
 Earth Science	<ul style="list-style-type: none"> • Earth and Human Activity 	Analyzes and evaluates information about ways individual communities use science ideas to protect the Earth's resources and environment.	<ul style="list-style-type: none"> • Individual and community actions to help protect Earth's resources and environments.
		Recognizes that as human consumption of natural resources is increasing, so is the negative impact on the planet.	<ul style="list-style-type: none"> • Increases in human population and per-capita consumption of natural resources impact Earth's systems.
		Investigates and evaluates sustainable programs that support responsible management of natural resources.	<ul style="list-style-type: none"> • Sustainability programs.

Social Participation



Knotion® Subject	Topic	Learning Outcome	Content
 Productivity Awareness	<ul style="list-style-type: none"> • Economic issues 	Understands how sustainability impacts economy.	<ul style="list-style-type: none"> • Economy and sustainability.
 Environmental Awareness	<ul style="list-style-type: none"> • Human Interaction With the Environment 	Understands that human activities may shape geographic features, such as mining re-shapes mountains.	<ul style="list-style-type: none"> • Human activities and the geographic features.
		Explores conservation and replenishing our natural resources.	<ul style="list-style-type: none"> • Conservation of natural resources.
 Historical Awareness	<ul style="list-style-type: none"> • Multiple Perspectives and Interpretations of Historical Events. 	Examines how ancient civilizations used natural resources and compares how natural resources are used in the present.	<ul style="list-style-type: none"> • Use of natural resources today and in the past.



Knotion® Subject	Topic	Learning Outcome	Content
 Technology and Computational Thinking	<ul style="list-style-type: none"> • Technology to Raise Awareness About Caring for Living Things 	Programs sequences of intermediate level algorithmic decisions.	<ul style="list-style-type: none"> • Creation of content and communication of information, applications of structured programming.
		Solves sequential problems in intermediate programming.	
		Uses digital tools to broadcast digital content.	
		Uses digital tools to produce audiovisual content material.	



		Topic	Learning Outcome
Heedfulness® 	• The Value of Integrity	<ul style="list-style-type: none"> • Reflects upon the value of integrity. • Reflects upon what has been learned this year in Heedfulness and how to carry it out into the world. 	
	• Learned Skills and Techniques	<ul style="list-style-type: none"> • Identifies and reflects on all the acquired skills as well as the techniques learned during this year in Heedfulness. 	
	• Living with Values	<ul style="list-style-type: none"> • Understands the possibilities of choosing the values they want to experience. 	

		Topic	Learning Outcome
Organik® 	• Natural Resources (energy)	<ul style="list-style-type: none"> • Asks questions and makes inferences. • Collaborates with teammates and shares ideas. • Promotes sustainable waste management. • Understands the importance of a clean environment. • Debates on how to make people and society aware of recycling and how important recycling is for a sustainable future. 	



	Topic	Learning Outcome
Finance 	<ul style="list-style-type: none">• Currency, Appreciation and Depreciation	<ul style="list-style-type: none">• Understands the concepts of currency appreciation and depreciation.