

# 5<sup>th</sup>

2019-2020



## Thematic Scope and Sequence

English Pathway



# 5<sup>th</sup>

2019-2020

Challenge 1

**Thematic Scope and Sequence**  
English Pathway





## Health and Well-Being

Fifth Grade

### **Magnetik® Understanding:**

Making decisions influenced by social pressure can affect health negatively.

### **Magnetik® Question:**

How can social pressure affect our health?

### **Global Issue:**

Addictions and eating disorders

### **Challenge-Action Question:**

How can I avoid addictions and eating disorders?



Knotion® supports the Sustainable Development Goals





Life Science

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



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

Knotion® Subject	Topic	Learning Outcome	Content
 <b>Language Mastery</b>	<ul style="list-style-type: none"> <li>Word Knowledge</li> </ul>	<ul style="list-style-type: none"> <li>Acquires new grade-level vocabulary in a variety of contexts.</li> </ul>	<ul style="list-style-type: none"> <li>High-frequency words</li> </ul>
		<ul style="list-style-type: none"> <li>Acquires new vocabulary related to the challenge.</li> </ul>	<ul style="list-style-type: none"> <li>Challenge words</li> </ul>
	<ul style="list-style-type: none"> <li>Phonics</li> </ul>	<ul style="list-style-type: none"> <li>Identifies short vowel sounds.</li> </ul>	<ul style="list-style-type: none"> <li>Short vowels a /æ/, e /ɛ/, i /ɪ/, o /ɒ/, u /ʌ/</li> </ul>
		<ul style="list-style-type: none"> <li>Identifies long vowel sounds.</li> </ul>	<ul style="list-style-type: none"> <li>Long vowels a /eɪ/, e /i/, i /aɪ/, o /oʊ/, u /u/ /ju/</li> </ul>
		<ul style="list-style-type: none"> <li>Recognizes r-controlled spelling patterns.</li> </ul>	<ul style="list-style-type: none"> <li>R-controlled vowels er, ir, ur, or /ɜr/, or /ɔr/, ar /ar/</li> </ul>
		<ul style="list-style-type: none"> <li>Identifies and lists consonant digraphs.</li> </ul>	<ul style="list-style-type: none"> <li>Digraphs th /θ/ /ð/, sh /ʃ/, ch /tʃ/, ph /f/, wh /w/</li> </ul>
	<ul style="list-style-type: none"> <li>Structure and Function</li> </ul>	<ul style="list-style-type: none"> <li>Identifies a simple sentence.</li> </ul>	<ul style="list-style-type: none"> <li>Sentences</li> </ul>
		<ul style="list-style-type: none"> <li>Identifies the subject and predicate in a sentence.</li> </ul>	<ul style="list-style-type: none"> <li>Subjects and predicates</li> </ul>
		<ul style="list-style-type: none"> <li>Describes the purpose of compound sentences.</li> </ul>	<ul style="list-style-type: none"> <li>Compound sentences and conjunctions</li> </ul>
		<ul style="list-style-type: none"> <li>Uses correct punctuation when writing sentences.</li> </ul>	<ul style="list-style-type: none"> <li>Punctuation in compound sentences</li> </ul>
 <b>Reading Skills</b>	<ul style="list-style-type: none"> <li>Genre</li> </ul>	<ul style="list-style-type: none"> <li>Understands that persuasive writing is a type of nonfiction writing used to convince the reader to agree with the author about an issue.</li> </ul>	<ul style="list-style-type: none"> <li>Persuasive article</li> </ul>
	<ul style="list-style-type: none"> <li>Strategies and Skills</li> </ul>	<ul style="list-style-type: none"> <li>Describes how a narrator's or speaker's point of view influences how events are described.</li> </ul>	<ul style="list-style-type: none"> <li>Author's point of view</li> </ul>
		<ul style="list-style-type: none"> <li>Asks and answers questions to demonstrate understanding of a text.</li> </ul>	<ul style="list-style-type: none"> <li>Asking and answering questions</li> </ul>
		<ul style="list-style-type: none"> <li>Summarizes a story or a text using the most important events and supporting details.</li> </ul>	<ul style="list-style-type: none"> <li>Summarizing</li> </ul>
		<ul style="list-style-type: none"> <li>Identifies the main idea of a story or a text and the details that support it.</li> </ul>	<ul style="list-style-type: none"> <li>Main idea and key details</li> </ul>

Knotion® Subject	Topic	Learning Outcome	Content
 <b>Writing Workshop</b>	<ul style="list-style-type: none"> <li>• Writing Strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Organizes ideas and information using a clear topic sentence, details, explanation, and concluding sentence, and supports opinions with relevant reasons.</li> </ul>	<ul style="list-style-type: none"> <li>• Persuasive writing</li> </ul>
 <b>Communication</b>	<ul style="list-style-type: none"> <li>• Oral Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Follows interactions between third parties in group discussions and debates on different topics.</li> </ul>	<ul style="list-style-type: none"> <li>• Panel discussion</li> </ul>
		<ul style="list-style-type: none"> <li>• Engages effectively in a range of collaborative discussions (one-on-one, in teams, and teacher-led) with diverse partners on fifth grade topics and texts, building on others' ideas and expressing their own ideas clearly.</li> </ul>	<ul style="list-style-type: none"> <li>• Social interaction and balanced participation in conversation</li> </ul>
		<ul style="list-style-type: none"> <li>• Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.</li> </ul>	<ul style="list-style-type: none"> <li>• Effective communication of ideas</li> </ul>
		<ul style="list-style-type: none"> <li>• Exchanges expressions to organize meetings.</li> </ul>	<ul style="list-style-type: none"> <li>• Expressions</li> </ul>
		<ul style="list-style-type: none"> <li>• Assumes the role of speaker during an exchange.</li> </ul>	<ul style="list-style-type: none"> <li>• Role of speaker</li> </ul>

# 5<sup>th</sup>

2019-2020

Challenge 2



**Thematic Scope and Sequence**  
English Pathway





## Biomes and Ecosystems

Fifth Grade

### Magnetik® Understanding:

The richness of an ecosystem manifests itself as biological diversity.

### Magnetik® Question:

Why should we care about biodiversity?

### Global Issue:

Biodiversity loss

### Challenge-Action Question:

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



Knotion® supports the Sustainable Development Goals



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



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

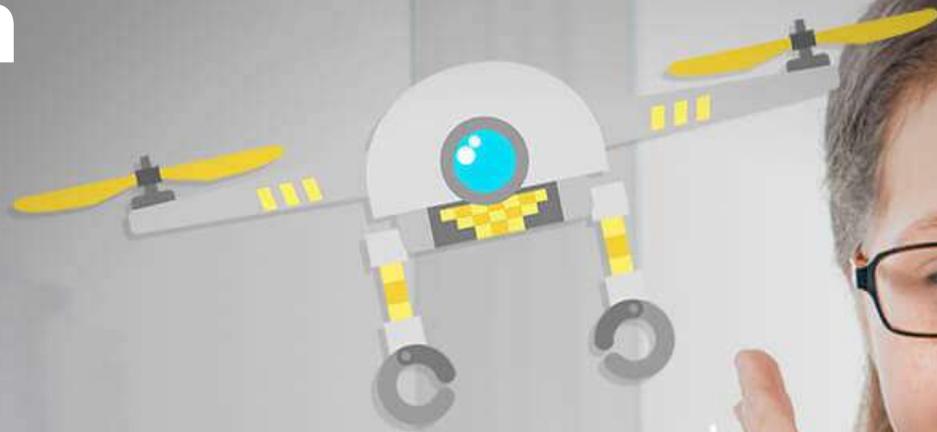
Knotion® Subject	Topic	Learning Outcome	Content	
 <b>Language Mastery</b>	<ul style="list-style-type: none"> <li>• Word Knowledge</li> </ul>	<ul style="list-style-type: none"> <li>• Acquires new grade-level vocabulary in a variety of contexts.</li> </ul>	<ul style="list-style-type: none"> <li>• High-frequency words</li> </ul>	
		<ul style="list-style-type: none"> <li>• Acquires new vocabulary related to the challenge.</li> </ul>	<ul style="list-style-type: none"> <li>• Challenge words</li> </ul>	
	<ul style="list-style-type: none"> <li>• Phonics</li> </ul>	<ul style="list-style-type: none"> <li>• Writes and spells words containing the diphthongs /oi/ and /ou/.</li> </ul>	<ul style="list-style-type: none"> <li>• Diphthongs /ɔɪ/ and /oʊ/</li> </ul>	
		<ul style="list-style-type: none"> <li>• Recognizes and writes words that contain the inflectional endings -s, -ing and -ed.</li> </ul>	<ul style="list-style-type: none"> <li>• Inflectional endings</li> </ul>	
		<ul style="list-style-type: none"> <li>• Creates plural nouns and uses them in sentences.</li> </ul>	<ul style="list-style-type: none"> <li>• Plural nouns</li> </ul>	
		<ul style="list-style-type: none"> <li>• Correctly distinguishes and pronounces the s and z sounds.</li> </ul>	<ul style="list-style-type: none"> <li>• Words with /z/ and /s/ sounds</li> </ul>	
	<ul style="list-style-type: none"> <li>• Structure and Function</li> </ul>	<ul style="list-style-type: none"> <li>• Understands and uses the structure of as + base adjective + as to show comparisons of equality.</li> </ul>	<ul style="list-style-type: none"> <li>• Comparatives of equality</li> </ul>	
		<ul style="list-style-type: none"> <li>• Understands and uses adjectives as words that modify and provide characteristics about nouns.</li> </ul>	<ul style="list-style-type: none"> <li>• Adjectives</li> </ul>	
		<ul style="list-style-type: none"> <li>• Uses adjectives that compare.</li> </ul>	<ul style="list-style-type: none"> <li>• Adjectives that compare</li> </ul>	
		<ul style="list-style-type: none"> <li>• Uses adjectives that compare and their irregular forms.</li> </ul>	<ul style="list-style-type: none"> <li>• Comparing adjectives with irregular forms</li> </ul>	
	 <b>Reading Skills</b>	<ul style="list-style-type: none"> <li>• Genre</li> </ul>	<ul style="list-style-type: none"> <li>• Understands that realistic fiction is about specific characters and some events in their lives.</li> </ul>	<ul style="list-style-type: none"> <li>• Realistic fiction</li> </ul>
		<ul style="list-style-type: none"> <li>• Strategies and Skills</li> </ul>	<ul style="list-style-type: none"> <li>• Identifies story elements including setting, characters, and plot.</li> </ul>	<ul style="list-style-type: none"> <li>• Characters, setting, and plot</li> </ul>
<ul style="list-style-type: none"> <li>• Summarizes a story using the most important events and supporting details.</li> </ul>			<ul style="list-style-type: none"> <li>• Summarizing</li> </ul>	
<ul style="list-style-type: none"> <li>• Retells important events in sequential order.</li> </ul>			<ul style="list-style-type: none"> <li>• Sequence</li> </ul>	
<ul style="list-style-type: none"> <li>• Determines the theme of a story, drama, or poem from details in the text.</li> </ul>			<ul style="list-style-type: none"> <li>• Theme</li> </ul>	

Knotion® Subject	Topic	Learning Outcome	Content
 <b>Writing Workshop</b>	<ul style="list-style-type: none"> <li>• Writing Strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Writes a research report that defines the topic, gathers information, determines credibility, and reports findings.</li> </ul>	<ul style="list-style-type: none"> <li>• Research writing</li> </ul>
 <b>Communication</b>	<ul style="list-style-type: none"> <li>• Oral Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Delivers informational speech by supporting spoken ideas with details and examples.</li> </ul>	<ul style="list-style-type: none"> <li>• Informational speech</li> </ul>
		<ul style="list-style-type: none"> <li>• Reports on a topic or text or presents an opinion.</li> </ul>	<ul style="list-style-type: none"> <li>• Oral presentations and class participation</li> </ul>
		<ul style="list-style-type: none"> <li>• Sequences ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.</li> </ul>	<ul style="list-style-type: none"> <li>• Effective communication of ideas</li> </ul>

# 5<sup>th</sup>

2019-2020

Challenge 3



**Thematic Scope and Sequence**  
English Pathway





## 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:**

Social network risks

### **Challenge-Action Question:**

What can I do to avoid the dangers associated with social networks?



Knotion® supports the Sustainable Development Goals



 Physical Science

Knotion® Subject	Topic	Learning Outcome	Content
 Physical Science	<ul style="list-style-type: none"> <li>• Motion, Forces, and Interactions</li> </ul>	<ul style="list-style-type: none"> <li>• Identifies and explains the properties of magnets.</li> </ul>	<ul style="list-style-type: none"> <li>• Properties of magnets</li> </ul>
		<ul style="list-style-type: none"> <li>• Experiments with magnets to make things move without touching them.</li> </ul>	<ul style="list-style-type: none"> <li>• Magnetic poles</li> </ul>
	<ul style="list-style-type: none"> <li>• Energy</li> </ul>	<ul style="list-style-type: none"> <li>• Understands how matter becomes charged.</li> </ul>	<ul style="list-style-type: none"> <li>• Atoms and their three kinds of particles; particles having a positive charge, a negative charge, or no charge</li> </ul>
		<ul style="list-style-type: none"> <li>• Understands that energy has different forms and provides examples.</li> </ul>	<ul style="list-style-type: none"> <li>• Forms of energy (examples: potential, kinetic)</li> </ul>
		<ul style="list-style-type: none"> <li>• Compares ways the temperature of an object can be changed.</li> </ul>	<ul style="list-style-type: none"> <li>• Temperature changes through rubbing, heating, bending of metal</li> </ul>
		<ul style="list-style-type: none"> <li>• Describes a simple open or closed electrical circuit.</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical circuit (example: battery or generator, wire, a complete loop through which the electrical current can pass)</li> </ul>
		<ul style="list-style-type: none"> <li>• Distinguishes parallel and series circuits.</li> </ul>	<ul style="list-style-type: none"> <li>• Representation of a parallel or series circuit</li> </ul>
		<ul style="list-style-type: none"> <li>• Understands how energy can be transformed.</li> </ul>	<ul style="list-style-type: none"> <li>• Electricity to light, light to heat, mechanical to heat</li> </ul>
		<ul style="list-style-type: none"> <li>• Understands that there is a relationship between electric currents and magnetic fields.</li> </ul>	<ul style="list-style-type: none"> <li>• Relationship between electric currents and magnetic fields</li> </ul>
		<ul style="list-style-type: none"> <li>• Recognizes the uses of electromagnets.</li> </ul>	<ul style="list-style-type: none"> <li>• Electromagnets</li> </ul>



Citizenship  
Awareness

• Civic Ideals, Cultural  
Principles, and Ethics

## Knotion® Subject

## Topic

## Learning Outcome

## Content

- Understands that some new technologies pose a risk to individual privacy and recognizes online information that can and cannot be shared.

- 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.

- Digital responsibility and information exchange and collaboration

- Understands how to manage passwords, protecting oneself from others, protecting devices, and knowing when to ask for help.

- 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.

- Digital responsibility and legal procedures to share content online

- Knows how to respond to and prevent, as well as understand how to deal with unwanted or aggressive attention online.

- Digital responsibility and inappropriate online interaction

- Understands the rights and responsibilities of a digital citizen.

- Digital responsibility and users' rights and responsibilities

Knotion® Subject	Topic	Learning Outcome	Content	
 <b>Language Mastery</b>	<ul style="list-style-type: none"> <li>• Word Knowledge</li> </ul>	<ul style="list-style-type: none"> <li>• Acquires new grade-level vocabulary in a variety of contexts.</li> </ul>	<ul style="list-style-type: none"> <li>• High-frequency words</li> </ul>	
		<ul style="list-style-type: none"> <li>• Acquires new vocabulary related to the challenge.</li> </ul>	<ul style="list-style-type: none"> <li>• Challenge words</li> </ul>	
	<ul style="list-style-type: none"> <li>• Phonics</li> </ul>	<ul style="list-style-type: none"> <li>• Identifies closed syllables in words.</li> </ul>	<ul style="list-style-type: none"> <li>• Closed syllables</li> </ul>	
		<ul style="list-style-type: none"> <li>• Identifies open syllables in words.</li> </ul>	<ul style="list-style-type: none"> <li>• Open syllables</li> </ul>	
		<ul style="list-style-type: none"> <li>• Identifies syllable division between two vowels.</li> </ul>	<ul style="list-style-type: none"> <li>• Open syllables (v/v)</li> </ul>	
		<ul style="list-style-type: none"> <li>• Reads and forms words that contain consonant-le.</li> </ul>	<ul style="list-style-type: none"> <li>• Consonant +le syllable /əl/</li> </ul>	
	<ul style="list-style-type: none"> <li>• Structure and Function</li> </ul>	<ul style="list-style-type: none"> <li>• Uses present perfect tense accurately.</li> </ul>	<ul style="list-style-type: none"> <li>• Present perfect tense with contractions</li> </ul>	
		<ul style="list-style-type: none"> <li>• Uses auxiliary verb with the present perfect tense.</li> </ul>	<ul style="list-style-type: none"> <li>• Auxiliary verb have with the present perfect tense</li> </ul>	
		<ul style="list-style-type: none"> <li>• Identifies and uses present perfect and past simple tenses.</li> </ul>	<ul style="list-style-type: none"> <li>• Present perfect and past simple tenses</li> </ul>	
		<ul style="list-style-type: none"> <li>• Understands and uses adverbs.</li> </ul>	<ul style="list-style-type: none"> <li>• Adverbs: ever, never, already, yet, and just</li> </ul>	
	 <b>Reading Skills</b>	<ul style="list-style-type: none"> <li>• Genre</li> </ul>	<ul style="list-style-type: none"> <li>• Understands that the purpose of expository nonfiction is to teach readers about specific topics in an interesting way.</li> </ul>	<ul style="list-style-type: none"> <li>• Expository text</li> </ul>
		<ul style="list-style-type: none"> <li>• Strategies and Skills</li> </ul>	<ul style="list-style-type: none"> <li>• Identifies the author's purpose (example: to inform, entertain, or explain) in a text.</li> </ul>	<ul style="list-style-type: none"> <li>• Author's purpose</li> </ul>
<ul style="list-style-type: none"> <li>• Asks and answers questions to demonstrate understanding of a text.</li> </ul>			<ul style="list-style-type: none"> <li>• Asking and answering questions</li> </ul>	
<ul style="list-style-type: none"> <li>• Identifies the main idea of a story or a text and the details that support it.</li> </ul>			<ul style="list-style-type: none"> <li>• Main idea and key details</li> </ul>	
<ul style="list-style-type: none"> <li>• Identifies statements that show cause and effect and understands the difference between them.</li> </ul>			<ul style="list-style-type: none"> <li>• Cause and effect</li> </ul>	

Knotion® Subject	Topic	Learning Outcome	Content
 <b>Writing Workshop</b>	<ul style="list-style-type: none"> <li>• Writing Strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Writes a series of steps that we can follow to make or do something.</li> </ul>	<ul style="list-style-type: none"> <li>• Instructive writing</li> </ul>
 <b>Communication</b>	<ul style="list-style-type: none"> <li>• Oral Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Speaks clearly, accurately, and fluently using a series of steps that we can follow to make or do something.</li> </ul>	<ul style="list-style-type: none"> <li>• How-to demonstration</li> </ul>
		<ul style="list-style-type: none"> <li>• Interprets information for following steps.</li> </ul>	<ul style="list-style-type: none"> <li>• Following steps</li> </ul>
		<ul style="list-style-type: none"> <li>• Reports on a topic or text or presents an opinion.</li> </ul>	<ul style="list-style-type: none"> <li>• Oral presentations and class participation</li> </ul>
		<ul style="list-style-type: none"> <li>• Sequences ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes.</li> </ul>	

# 5<sup>th</sup>

2019-2020

Challenge 4



**Thematic Scope and Sequence**  
English Pathway





## Origins and Cultural Diversity

Fifth Grade

### Magnetik® Understanding:

Cultural heritage is often expressed through art.

### Magnetik® Question:

How does art reflect culture?

### Global Issue:

Censorship

### Challenge-Action Question:

How can I express my culture through art?



Knotion® supports the Sustainable Development Goals





Knotion® Subject	Topic	Learning Outcome	Content
 <b>Physical Science</b>	<ul style="list-style-type: none"> <li>• Matter and Its Interactions</li> </ul>	<ul style="list-style-type: none"> <li>• Knows that materials may be made of parts too small to be seen without magnification.</li> </ul>	<ul style="list-style-type: none"> <li>• The atom as the smallest particle of an element</li> </ul>
		<ul style="list-style-type: none"> <li>• Understands how atoms interact.</li> </ul>	<ul style="list-style-type: none"> <li>• Chemical compounds</li> </ul>
		<ul style="list-style-type: none"> <li>• Identifies mixtures and separates some of them into their component parts.</li> </ul>	<ul style="list-style-type: none"> <li>• Mixtures and separation through filtering and evaporation</li> </ul>
		<ul style="list-style-type: none"> <li>• Describes qualitatively the concentration of a solution.</li> </ul>	<ul style="list-style-type: none"> <li>• Types of solutions: saturated, unsaturated</li> </ul>



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

Knotion® Subject	Topic	Learning Outcome	Content
 <b>Language Mastery</b>	<ul style="list-style-type: none"> <li>• Word Knowledge</li> </ul>	<ul style="list-style-type: none"> <li>• Acquires new grade-level vocabulary in a variety of contexts.</li> </ul>	<ul style="list-style-type: none"> <li>• High-frequency words</li> </ul>
		<ul style="list-style-type: none"> <li>• Acquires new vocabulary related to the challenge.</li> </ul>	<ul style="list-style-type: none"> <li>• Challenge words</li> </ul>
	<ul style="list-style-type: none"> <li>• Phonics</li> </ul>	<ul style="list-style-type: none"> <li>• Identifies and correctly spells words with vowel teams.</li> </ul>	<ul style="list-style-type: none"> <li>• Vowel team syllables</li> </ul>
		<ul style="list-style-type: none"> <li>• Reads and forms words that contain final -en and -le.</li> </ul>	<ul style="list-style-type: none"> <li>• Final syllables /ən/ and /əl/</li> </ul>
		<ul style="list-style-type: none"> <li>• Understands that many words in English come from other languages and have unusual spellings.</li> </ul>	<ul style="list-style-type: none"> <li>• Words from many cultures</li> </ul>
		<ul style="list-style-type: none"> <li>• Correctly pronounces and writes words with the consonant sounds of the letters j, ks, sk, s.</li> </ul>	<ul style="list-style-type: none"> <li>• Consonant sounds /dʒ/, /ks/, /sk/, /s/</li> </ul>
	<ul style="list-style-type: none"> <li>• Structure and Function</li> </ul>	<ul style="list-style-type: none"> <li>• Understands and uses the passive voice in simple present and past tenses.</li> </ul>	<ul style="list-style-type: none"> <li>• Passive voice</li> </ul>
		<ul style="list-style-type: none"> <li>• Uses modal verbs to talk about obligation.</li> </ul>	<ul style="list-style-type: none"> <li>• Modal verbs: must and have to</li> </ul>
		<ul style="list-style-type: none"> <li>• Uses modal verbs to make polite requests and ask for permission.</li> </ul>	<ul style="list-style-type: none"> <li>• Modal verbs: could and would</li> </ul>
		<ul style="list-style-type: none"> <li>• Uses and combines the future simple, intentional future, and present progressive tenses.</li> </ul>	<ul style="list-style-type: none"> <li>• Future simple, intentional future, and present progressive tenses</li> </ul>
 <b>Reading Skills</b>	<ul style="list-style-type: none"> <li>• Genre</li> </ul>	<ul style="list-style-type: none"> <li>• Understands that free verse poems do not have to rhyme.</li> </ul>	<ul style="list-style-type: none"> <li>• Free verse</li> </ul>
	<ul style="list-style-type: none"> <li>• Strategies and Skills</li> </ul>	<ul style="list-style-type: none"> <li>• Creates a mental image that reflects or represents the ideas in the text.</li> </ul>	<ul style="list-style-type: none"> <li>• Visualization</li> </ul>
		<ul style="list-style-type: none"> <li>• Determines the theme of a story, drama, or poem from details in the text.</li> </ul>	<ul style="list-style-type: none"> <li>• Theme</li> </ul>
		<ul style="list-style-type: none"> <li>• Describes how a narrator's or speaker's point of view influences how events are described.</li> </ul>	<ul style="list-style-type: none"> <li>• Author's point of view</li> </ul>
		<ul style="list-style-type: none"> <li>• Monitors and adjusts comprehension (example: using background knowledge, creating sensory images, re-reading a portion aloud).</li> </ul>	<ul style="list-style-type: none"> <li>• Rereading</li> </ul>

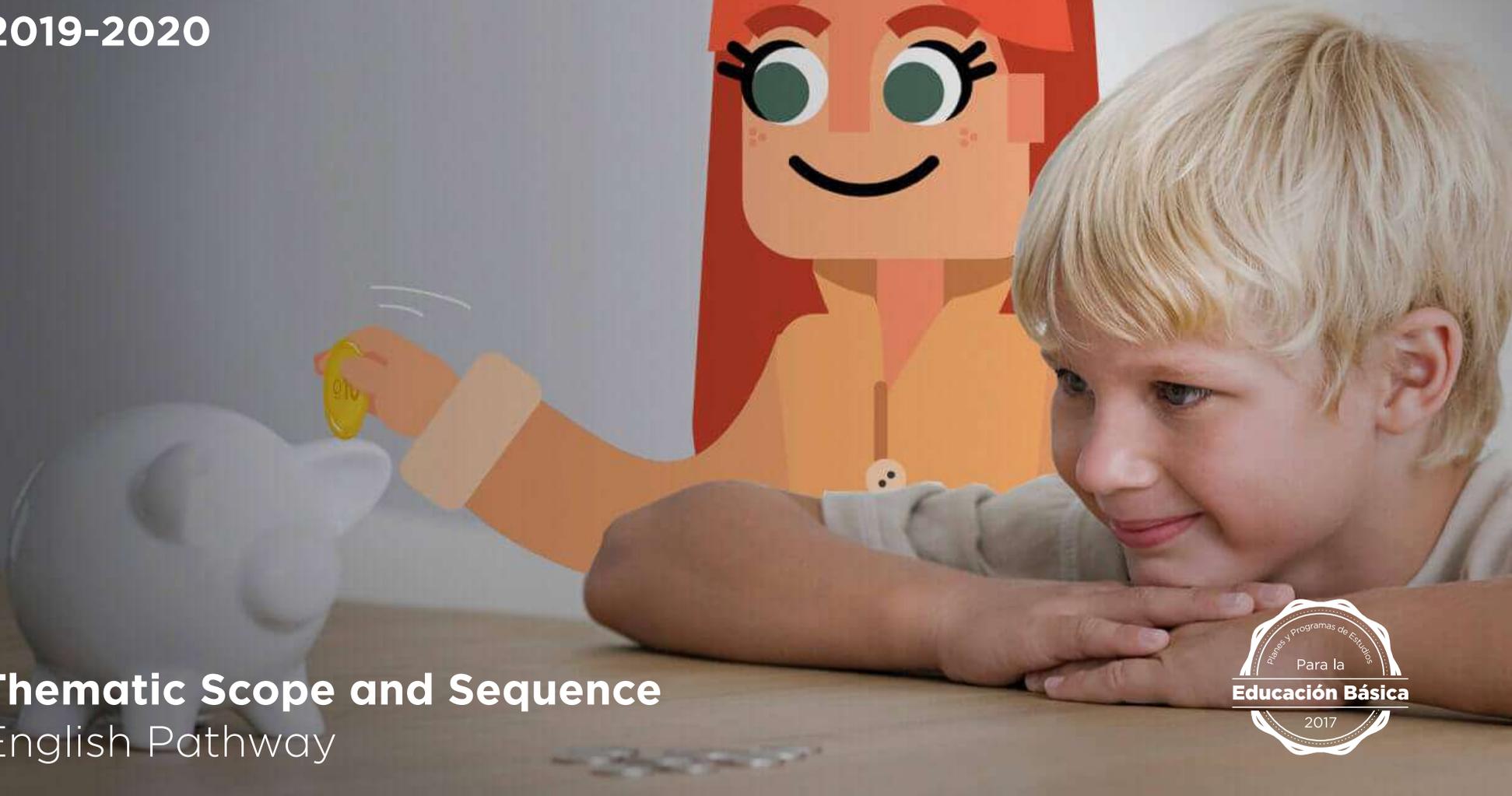


Knotion® Subject	Topic	Learning Outcome	Content
 <b>Writing Workshop</b>	<ul style="list-style-type: none"> <li>• Writing Strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Writes stories using descriptive words to make stories clearer and more interesting.</li> </ul>	<ul style="list-style-type: none"> <li>• Creative writing</li> </ul>
		<ul style="list-style-type: none"> <li>• Writes statements using descriptions and comparisons.</li> </ul>	<ul style="list-style-type: none"> <li>• Statements and descriptions</li> </ul>
 <b>Communication</b>	<ul style="list-style-type: none"> <li>• Oral Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Interacts with and responds to a variety of print and nonprint media to analyze art.</li> </ul>	<ul style="list-style-type: none"> <li>• Analyzing art</li> </ul>
		<ul style="list-style-type: none"> <li>• Distinguishes and expresses similar and different natural features and cultural expressions between Mexico and other countries</li> </ul>	<ul style="list-style-type: none"> <li>• Cultural expressions and natural features</li> </ul>
		<ul style="list-style-type: none"> <li>• Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.</li> </ul>	<ul style="list-style-type: none"> <li>• Effective communication of ideas</li> </ul>

# 5<sup>th</sup>

2019-2020

Challenge 5



**Thematic Scope and Sequence**  
English Pathway





## Productivity and Economy

Fifth Grade

### Magnetik® Understanding:

The ways people plan budgets impacts their lifestyles.

### Magnetik® Question:

Why is it important to have a personal budget?

### Global Issue:

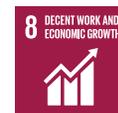
Overspending

### Challenge-Action Question:

How can I organize my personal finances?



Knotion® supports the Sustainable Development Goals





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



Knotion® Subject	Topic	Learning Outcome	Content
Productivity Awareness	<ul style="list-style-type: none"> <li>Economic Concepts and Activities</li> </ul>	<ul style="list-style-type: none"> <li>Relates the components of a simple spending plan with how that relationship allows for managing income, expenses, and savings.</li> </ul>	<ul style="list-style-type: none"> <li>Managing income, expenses, and savings</li> </ul>
		<ul style="list-style-type: none"> <li>Explains the responsibilities associated with managing personal finances.</li> </ul>	<ul style="list-style-type: none"> <li>Savings, checking, credit, and noncash systems</li> </ul>
		<ul style="list-style-type: none"> <li>Evaluates the cost and benefit of spending, borrowing, and saving.</li> </ul>	<ul style="list-style-type: none"> <li>Spending, borrowing, and saving</li> </ul>
		<ul style="list-style-type: none"> <li>Explains the importance of developing a basic budget for spending and saving.</li> </ul>	<ul style="list-style-type: none"> <li>Creating and managing a personal budget</li> </ul>
		<ul style="list-style-type: none"> <li>Compares spending and saving opportunities.</li> </ul>	<ul style="list-style-type: none"> <li>Spending versus saving</li> </ul>
	<ul style="list-style-type: none"> <li>Economic Issues</li> </ul>	<ul style="list-style-type: none"> <li>Identifies and explains consumerism.</li> </ul>	<ul style="list-style-type: none"> <li>Problems produced by consumerism</li> </ul>

Knotion® Subject	Topic	Learning Outcome	Content	
 <b>Language Mastery</b>	<ul style="list-style-type: none"> <li>• Word Knowledge</li> </ul>	<ul style="list-style-type: none"> <li>• Acquires new grade-level vocabulary in a variety of contexts.</li> </ul>	<ul style="list-style-type: none"> <li>• High-frequency words</li> </ul>	
		<ul style="list-style-type: none"> <li>• Acquires new vocabulary related to the challenge.</li> </ul>	<ul style="list-style-type: none"> <li>• Challenge words</li> </ul>	
	<ul style="list-style-type: none"> <li>• Phonics</li> </ul>	<ul style="list-style-type: none"> <li>• Identifies and correctly pronounces the schwa sound.</li> </ul>	<ul style="list-style-type: none"> <li>• Schwa /ə/</li> </ul>	
		<ul style="list-style-type: none"> <li>• Correctly pronounces and writes words with the final syllables -ant, -ent, -ance, -ence.</li> </ul>	<ul style="list-style-type: none"> <li>• Final syllable -ant, -ent, -ance, -ence</li> </ul>	
		<ul style="list-style-type: none"> <li>• Uses the prefixes un-, de-, dis- to decode and comprehend words.</li> </ul>	<ul style="list-style-type: none"> <li>• Prefixes un-, de-, dis-</li> </ul>	
		<ul style="list-style-type: none"> <li>• Correctly pronounces and writes words with ei and ie.</li> </ul>	<ul style="list-style-type: none"> <li>• Words with ei and ie, /eɪ/ and /i/</li> </ul>	
	<ul style="list-style-type: none"> <li>• Structure and Function</li> </ul>	<ul style="list-style-type: none"> <li>• Differentiates between the four different kinds of sentences.</li> </ul>	<ul style="list-style-type: none"> <li>• Four kinds of sentences</li> </ul>	
		<ul style="list-style-type: none"> <li>• Differentiates between independent and dependent clauses.</li> </ul>	<ul style="list-style-type: none"> <li>• Independent and dependent clauses</li> </ul>	
		<ul style="list-style-type: none"> <li>• Identifies and creates complex sentences.</li> </ul>	<ul style="list-style-type: none"> <li>• Complex sentences</li> </ul>	
		<ul style="list-style-type: none"> <li>• Uses the correct punctuation when writing different kinds of sentences.</li> </ul>	<ul style="list-style-type: none"> <li>• Punctuation in different kinds of sentences</li> </ul>	
	 <b>Reading Skills</b>	<ul style="list-style-type: none"> <li>• Genre</li> </ul>	<ul style="list-style-type: none"> <li>• Understands that a biography is a sequence of true events in a person's life.</li> </ul>	<ul style="list-style-type: none"> <li>• Biography</li> </ul>
		<ul style="list-style-type: none"> <li>• Strategies and Skills</li> </ul>	<ul style="list-style-type: none"> <li>• Asks and answers questions to demonstrate understanding of a text.</li> </ul>	<ul style="list-style-type: none"> <li>• Asking and answering questions</li> </ul>
<ul style="list-style-type: none"> <li>• Describes how a narrator's or speaker's point of view influences how events are described.</li> </ul>			<ul style="list-style-type: none"> <li>• Author's point of view</li> </ul>	
<ul style="list-style-type: none"> <li>• Summarizes a story using the most important events and supporting details.</li> </ul>			<ul style="list-style-type: none"> <li>• Summarizing</li> </ul>	
<ul style="list-style-type: none"> <li>• Retells important events in sequential order.</li> </ul>			<ul style="list-style-type: none"> <li>• Sequence</li> </ul>	

Knotion® Subject	Topic	Learning Outcome	Content
 <b>Writing Workshop</b>	<ul style="list-style-type: none"> <li>• Writing Strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Creates a personal narrative that tells a story focusing on one significant single event.</li> </ul>	<ul style="list-style-type: none"> <li>• Personal writing</li> </ul>
 <b>Communication</b>	<ul style="list-style-type: none"> <li>• Oral Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Follows rules for discussion, including listening to others, speaking when recognized, and making appropriate contributions to solve problems.</li> </ul>	<ul style="list-style-type: none"> <li>• Solving problems using rules for discussion</li> </ul>
		<ul style="list-style-type: none"> <li>• Reports on a topic or text or presents an opinion.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Sequences ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes.</li> </ul>	<ul style="list-style-type: none"> <li>• Oral presentations and class participation</li> </ul>
		<ul style="list-style-type: none"> <li>• Orally expresses a personal anecdote.</li> </ul>	<ul style="list-style-type: none"> <li>• Personal anecdote</li> </ul>

# 5<sup>th</sup>

2019-2020

Challenge 6



**Thematic Scope and Sequence**  
English Pathway





## Power, Authority, and Civil Ideals

Fifth Grade

### Magnetik® Understanding:

In a democratic society, the constitution is the supreme law that recognizes 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?



Knotion® supports the Sustainable Development Goals





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



Citizenship  
Awareness

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

Knotion® Subject	Topic	Learning Outcome	Content	
 <b>Language Mastery</b>	<ul style="list-style-type: none"> <li>Word Knowledge</li> </ul>	<ul style="list-style-type: none"> <li>Acquires new grade-level vocabulary in a variety of contexts.</li> </ul>	<ul style="list-style-type: none"> <li>High-frequency words</li> </ul>	
		<ul style="list-style-type: none"> <li>Acquires new vocabulary related to the challenge.</li> </ul>	<ul style="list-style-type: none"> <li>Challenge words</li> </ul>	
	<ul style="list-style-type: none"> <li>Phonics</li> </ul>	<ul style="list-style-type: none"> <li>Reads and forms words that contain final syllables -er, -ar, -or.</li> </ul>	<ul style="list-style-type: none"> <li>Final syllables -er, -ar, -or: /ɜr/ /ər/ /ar/ /ɔr/</li> </ul>	
		<ul style="list-style-type: none"> <li>Identifies multiple meaning words.</li> </ul>	<ul style="list-style-type: none"> <li>Homographs</li> </ul>	
		<ul style="list-style-type: none"> <li>Determines the meanings of words with the suffixes -ible, -able.</li> </ul>	<ul style="list-style-type: none"> <li>Suffixes -ible, -able</li> </ul>	
		<ul style="list-style-type: none"> <li>Uses prefixes to decode and comprehend words.</li> </ul>	<ul style="list-style-type: none"> <li>Prefixes over-, under-, sub-, super-, out-</li> </ul>	
	<ul style="list-style-type: none"> <li>Structure and Function</li> </ul>	<ul style="list-style-type: none"> <li>Defines pronouns and antecedents and understands that they must agree in number and gender.</li> </ul>	<ul style="list-style-type: none"> <li>Pronouns and antecedents</li> </ul>	
		<ul style="list-style-type: none"> <li>Identifies and uses singular indefinite pronouns.</li> </ul>	<ul style="list-style-type: none"> <li>Singular indefinite pronouns</li> </ul>	
		<ul style="list-style-type: none"> <li>Identifies and uses plural indefinite pronouns.</li> </ul>	<ul style="list-style-type: none"> <li>Plural indefinite pronouns</li> </ul>	
		<ul style="list-style-type: none"> <li>Identifies and uses possessive pronouns.</li> </ul>	<ul style="list-style-type: none"> <li>Possessive pronouns</li> </ul>	
	 <b>Reading Skills</b>	<ul style="list-style-type: none"> <li>Genre</li> </ul>	<ul style="list-style-type: none"> <li>Understands that historical fiction is based on real historical events in which the characters are not real, and the minor events may not be realistic.</li> </ul>	<ul style="list-style-type: none"> <li>Historical fiction</li> </ul>
		<ul style="list-style-type: none"> <li>Strategies and Skills</li> </ul>	<ul style="list-style-type: none"> <li>Explains what might happen next in a story or what the author may tell next.</li> </ul>	<ul style="list-style-type: none"> <li>Making, confirming, and revising predictions</li> </ul>
<ul style="list-style-type: none"> <li>Identifies story elements including, setting, characters, and plot.</li> </ul>			<ul style="list-style-type: none"> <li>Characters, setting, and plot</li> </ul>	
<ul style="list-style-type: none"> <li>Identifies the similarities and differences between and among two or more things (example: characters, ideas, issues, concepts, topics, events, places).</li> </ul>			<ul style="list-style-type: none"> <li>Comparing and contrasting</li> </ul>	
<ul style="list-style-type: none"> <li>Summarizes a story using the most important events and supporting details.</li> </ul>			<ul style="list-style-type: none"> <li>Summarizing</li> </ul>	



Knotion® Subject	Topic	Learning Outcome	Content
 <b>Writing Workshop</b>	<ul style="list-style-type: none"> <li>• Writing Strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Writes narratives to develop real or imagined experiences or events using effective techniques, well-chosen details, and well-structured event sequences.</li> </ul>	<ul style="list-style-type: none"> <li>• Narrative writing</li> </ul>
 <b>Communication</b>	<ul style="list-style-type: none"> <li>• Oral Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Presents clear descriptions in a style appropriate to the context and with an effective logical structure.</li> </ul>	<ul style="list-style-type: none"> <li>• Description</li> </ul>
		<ul style="list-style-type: none"> <li>• 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.</li> </ul>	<ul style="list-style-type: none"> <li>• Oral presentations and class participation</li> </ul>

**5<sup>th</sup>**

**2019-2020**

Challenge 7

**Thematic Scope and Sequence**  
English Pathway





## Crisis and Conflict Resolution

Fifth Grade

### Magnetik® Understanding:

Armed conflicts and natural disasters intensify social inequalities and vulnerabilities.

### Magnetik® Question:

How do natural disasters and armed conflicts affect us?

### Global Issue:

Socioeconomic inequality

### Challenge-Action Question:

How can I become actively involved to reduce social inequality?



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 Earth Science

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



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

Knotion® Subject	Topic	Learning Outcome	Content	
 <b>Language Mastery</b>	<ul style="list-style-type: none"> <li>Word Knowledge</li> </ul>	<ul style="list-style-type: none"> <li>Acquires new grade-level vocabulary in a variety of contexts.</li> </ul>	<ul style="list-style-type: none"> <li>High-frequency words</li> </ul>	
		<ul style="list-style-type: none"> <li>Acquires new vocabulary related to the challenge.</li> </ul>	<ul style="list-style-type: none"> <li>Challenge words</li> </ul>	
	<ul style="list-style-type: none"> <li>Phonics</li> </ul>	<ul style="list-style-type: none"> <li>Uses number prefixes to decode and comprehend words.</li> </ul>	<ul style="list-style-type: none"> <li>Number prefixes uni-, bi-, tri-, centi-</li> </ul>	
		<ul style="list-style-type: none"> <li>Reads and spells words that contain unaccented final syllables.</li> </ul>	<ul style="list-style-type: none"> <li>Final syllables -le, -el, -il, -al, /əl/</li> </ul>	
		<ul style="list-style-type: none"> <li>Identifies words with Greek roots.</li> </ul>	<ul style="list-style-type: none"> <li>Words with Greek roots: mech, meter, onym</li> </ul>	
		<ul style="list-style-type: none"> <li>Identifies and uses words with cher and zher sounds.</li> </ul>	<ul style="list-style-type: none"> <li>Words with /tʃr/ and /zr/ sounds</li> </ul>	
	<ul style="list-style-type: none"> <li>Structure and Function</li> </ul>	<ul style="list-style-type: none"> <li>Identifies and forms comparative and superlative adverbs in sentences.</li> </ul>	<ul style="list-style-type: none"> <li>Adverbs that compare</li> </ul>	
		<ul style="list-style-type: none"> <li>Uses the comparative and superlative forms of adverbs in sentences correctly.</li> </ul>	<ul style="list-style-type: none"> <li>Using good and well, more and most, -er and -est</li> </ul>	
		<ul style="list-style-type: none"> <li>Combines similar elements, such as subjects or verbs in sentences.</li> </ul>	<ul style="list-style-type: none"> <li>Sentence combining</li> </ul>	
		<ul style="list-style-type: none"> <li>Understands the concept of double negatives.</li> </ul>	<ul style="list-style-type: none"> <li>Negatives</li> </ul>	
	 <b>Reading Skills</b>	<ul style="list-style-type: none"> <li>Genre</li> </ul>	<ul style="list-style-type: none"> <li>Understands that in mystery stories, something is hidden from one or more characters.</li> </ul>	<ul style="list-style-type: none"> <li>Mystery genre</li> </ul>
		<ul style="list-style-type: none"> <li>Strategies and Skills</li> </ul>	<ul style="list-style-type: none"> <li>Creates a mental image that reflects or represents the ideas in the text.</li> </ul>	<ul style="list-style-type: none"> <li>Visualization</li> </ul>
<ul style="list-style-type: none"> <li>Determines a theme of a story, drama, or poem from details in the text.</li> </ul>			<ul style="list-style-type: none"> <li>Theme</li> </ul>	
<ul style="list-style-type: none"> <li>Describes how a narrator's or speaker's point of view influences how events are described.</li> </ul>			<ul style="list-style-type: none"> <li>Author's point of view</li> </ul>	
<ul style="list-style-type: none"> <li>Summarizes a story using the most important events and supporting details.</li> </ul>			<ul style="list-style-type: none"> <li>Summarizing</li> </ul>	

Knotion® Subject	Topic	Learning Outcome	Content
 <b>Writing Workshop</b>	<ul style="list-style-type: none"> <li>• Writing Strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Develops sequenced pieces of writing using descriptive language.</li> </ul>	<ul style="list-style-type: none"> <li>• Descriptive writing</li> </ul>
 <b>Communication</b>	<ul style="list-style-type: none"> <li>• Oral Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Narrates important events in logical sequence with a beginning, middle, and end.</li> </ul>	<ul style="list-style-type: none"> <li>• Narrating in sequence</li> </ul>
		<ul style="list-style-type: none"> <li>• Reports on a topic or text or presents an opinion.</li> </ul>	<ul style="list-style-type: none"> <li>• Oral presentations and class participation</li> </ul>
		<ul style="list-style-type: none"> <li>• Sequences ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Describes the immediate surroundings as a reference point for moving around.</li> </ul>	<ul style="list-style-type: none"> <li>• Meeting place in case of a disaster</li> </ul>

# 5<sup>th</sup>

2019-2020

Challenge 8

**Thematic Scope and Sequence**  
English Pathway





## Environment and Sustainability

Fifth Grade

### Magnetik® Understanding:

A clean and sustainable environment is everyone's responsibility.

### Magnetik® Question:

How does human interference affect the environment?

### Global Issue:

Unsustainable human activities

### Challenge-Action Question:

How can I make people in my community understand the importance of sustainability?



Knotion® supports the Sustainable Development Goals





**Earth Science**

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



Productivity Awareness

Knotion® Subject	Topic	Learning Outcome	Content
	<ul style="list-style-type: none"> <li>• Economic issues</li> </ul>	<ul style="list-style-type: none"> <li>• Understands how sustainability impacts economy.</li> </ul>	<ul style="list-style-type: none"> <li>• Economy and sustainability</li> </ul>
	<ul style="list-style-type: none"> <li>• Human Interaction With the Environment</li> </ul>	<ul style="list-style-type: none"> <li>• Explores conservation and replenishment of natural resources.</li> </ul>	<ul style="list-style-type: none"> <li>• Conservation of natural resources</li> </ul>



Knotion® Subject	Topic	Learning Outcome	Content	
 <b>Language Mastery</b>	<ul style="list-style-type: none"> <li>• Word Knowledge</li> </ul>	<ul style="list-style-type: none"> <li>• Acquires new grade-level vocabulary in a variety of contexts.</li> </ul>	<ul style="list-style-type: none"> <li>• High-frequency words</li> </ul>	
		<ul style="list-style-type: none"> <li>• Acquires new vocabulary related to the challenge.</li> </ul>	<ul style="list-style-type: none"> <li>• Challenge words</li> </ul>	
	<ul style="list-style-type: none"> <li>• Phonics</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrates understanding of synonyms and antonyms.</li> </ul>	<ul style="list-style-type: none"> <li>• Synonyms and antonyms</li> </ul>	
		<ul style="list-style-type: none"> <li>• Determines the meanings of Latin roots.</li> </ul>	<ul style="list-style-type: none"> <li>• Latin roots aqua, port</li> </ul>	
		<ul style="list-style-type: none"> <li>• Understands how new words are created.</li> </ul>	<ul style="list-style-type: none"> <li>• Coined words</li> </ul>	
		<ul style="list-style-type: none"> <li>• Determines the meanings of confusing words.</li> </ul>	<ul style="list-style-type: none"> <li>• Confusing words</li> </ul>	
	<ul style="list-style-type: none"> <li>• Structure and Function</li> </ul>	<ul style="list-style-type: none"> <li>• Identifies and uses prepositions.</li> </ul>	<ul style="list-style-type: none"> <li>• Prepositions</li> </ul>	
		<ul style="list-style-type: none"> <li>• Identifies and forms prepositional phrases.</li> </ul>	<ul style="list-style-type: none"> <li>• Prepositional phrases</li> </ul>	
		<ul style="list-style-type: none"> <li>• Uses quotation marks correctly to signal direct quotations.</li> </ul>	<ul style="list-style-type: none"> <li>• Quotations</li> </ul>	
		<ul style="list-style-type: none"> <li>• Respects subject-verb agreement in present tenses.</li> </ul>	<ul style="list-style-type: none"> <li>• Subject-verb agreement</li> </ul>	
	 <b>Reading Skills</b>	<ul style="list-style-type: none"> <li>• Genre</li> </ul>	<ul style="list-style-type: none"> <li>• Understands that a nonfiction narrative is a genre in which factual matter is presented in a narrative style using literary techniques.</li> </ul>	<ul style="list-style-type: none"> <li>• Narrative nonfiction</li> </ul>
		<ul style="list-style-type: none"> <li>• Strategies and Skills</li> </ul>	<ul style="list-style-type: none"> <li>• Asks and answers questions to demonstrate understanding of a text.</li> </ul>	<ul style="list-style-type: none"> <li>• Asking and answering questions</li> </ul>
<ul style="list-style-type: none"> <li>• Identifies statements that show cause and effect and understands the difference between them.</li> </ul>			<ul style="list-style-type: none"> <li>• Cause and effect</li> </ul>	
<ul style="list-style-type: none"> <li>• Identifies the author’s purpose (example: to inform, entertain, or explain) in a text.</li> </ul>			<ul style="list-style-type: none"> <li>• Author’s purpose</li> </ul>	
<ul style="list-style-type: none"> <li>• Differentiates between fact and opinion.</li> </ul>			<ul style="list-style-type: none"> <li>• Fact and opinion</li> </ul>	

Knotion® Subject	Topic	Learning Outcome	Content
 <b>Writing Workshop</b>	<ul style="list-style-type: none"> <li>• Writing Strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Gives facts and details about a topic.</li> </ul>	<ul style="list-style-type: none"> <li>• Informational writing</li> </ul>
 <b>Communication</b>	<ul style="list-style-type: none"> <li>• Oral Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Communicates and shares ideas and experiences to give advice.</li> </ul>	<ul style="list-style-type: none"> <li>• Giving advice</li> </ul>
		<ul style="list-style-type: none"> <li>• Exchanges expressions for accepting or rejecting requests.</li> </ul>	<ul style="list-style-type: none"> <li>• Requests</li> </ul>
		<ul style="list-style-type: none"> <li>• Adapts language as appropriate to purpose: to persuade, explain and provide information, or express an opinion.</li> </ul>	<ul style="list-style-type: none"> <li>• Effective communication of ideas</li> </ul>