

2024 GM KIDS SERIES 576 CATALOG

We are setting the global standard of mathematics education.
We are always making our best efforts to realize learner-centered education.
Please feel free to reach out to us with the contact information provided
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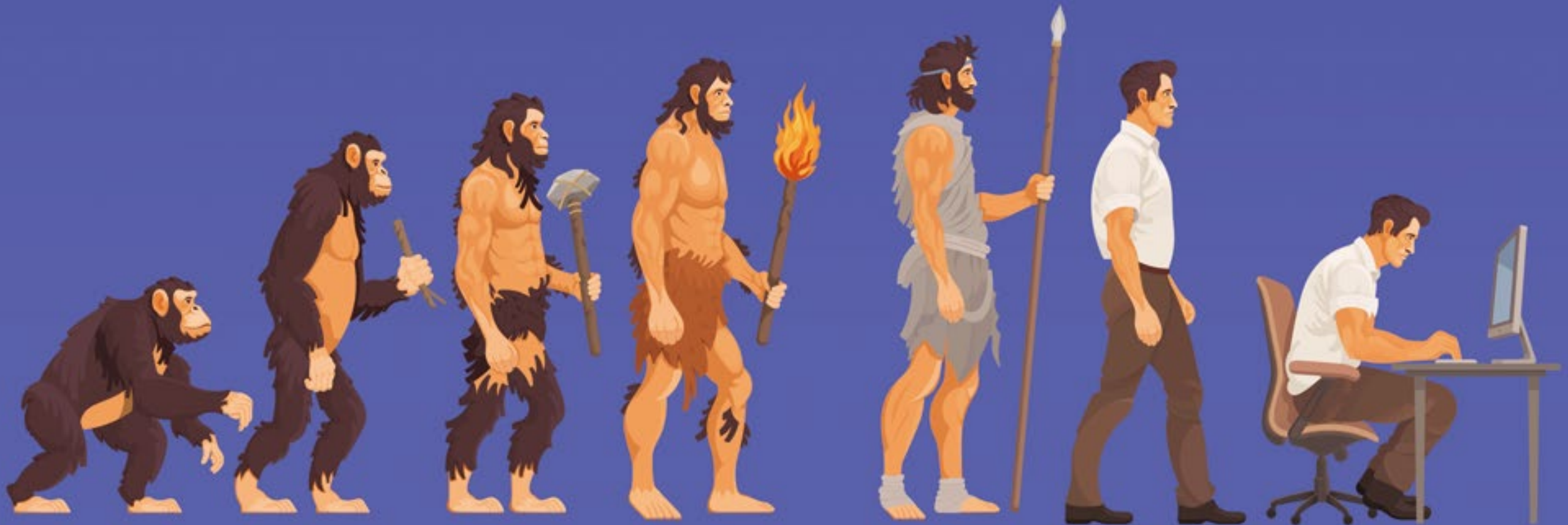
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Written by David Ann

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WE ARE ALWAYS MAKING OUR BEST EFFORTS TO REALIZE LEARNER-CENTERED EDUCATION.
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GM KIDS SERIES 576

CATALOG

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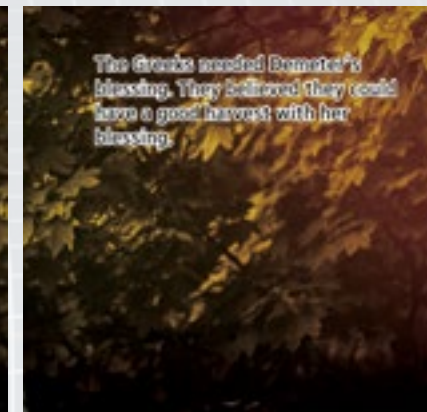
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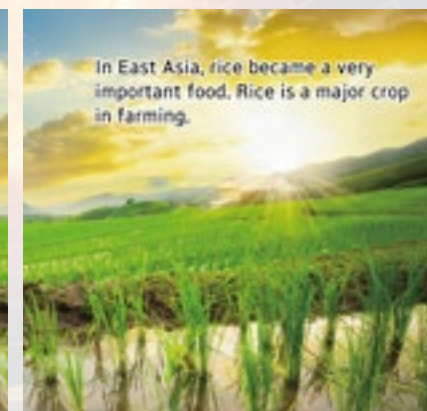


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MATHEMATICS MUST BE THE STUDY OF UNCOVERING
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LEVEL K2

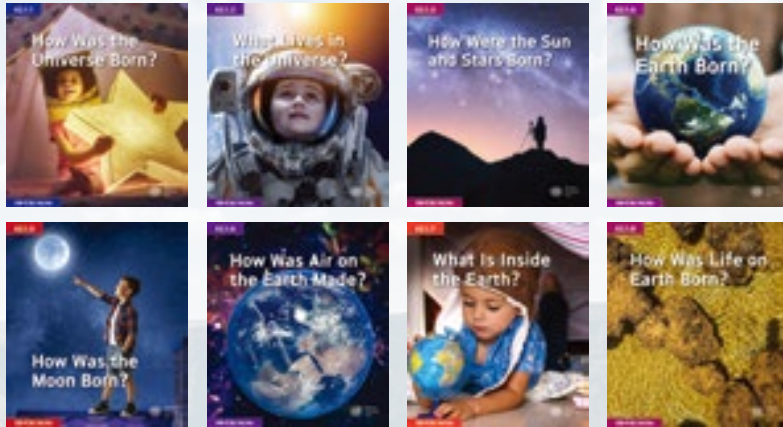


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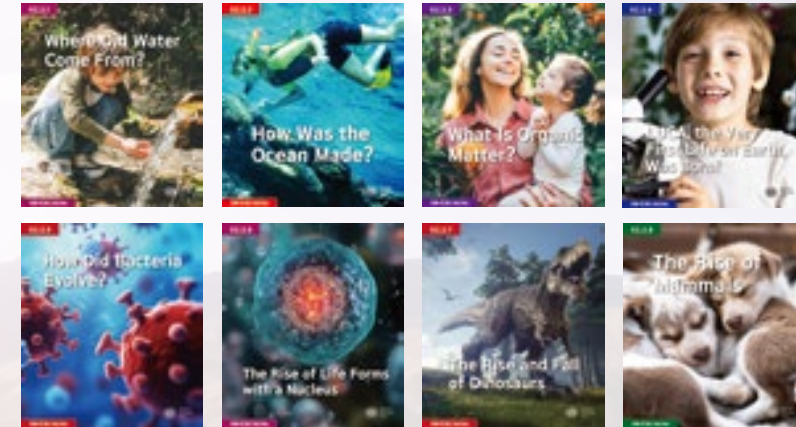
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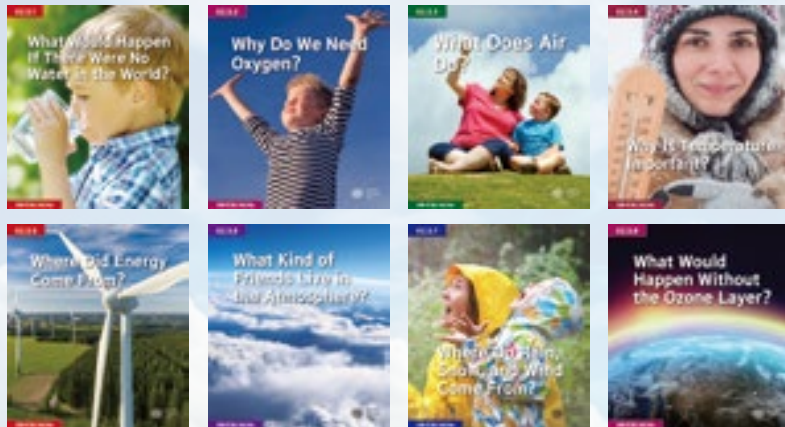
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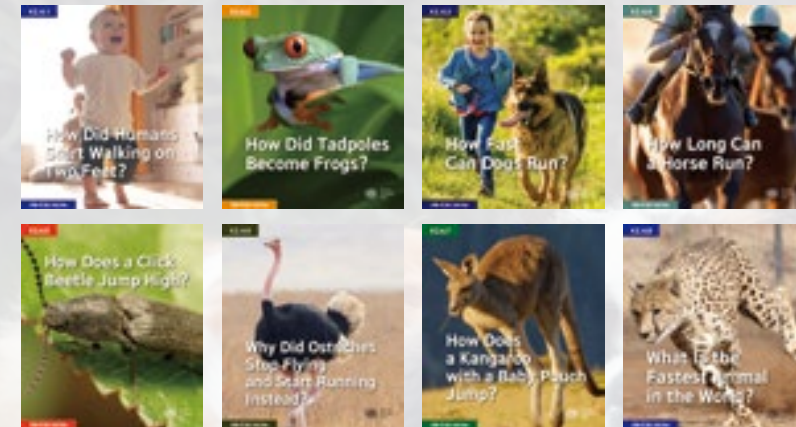
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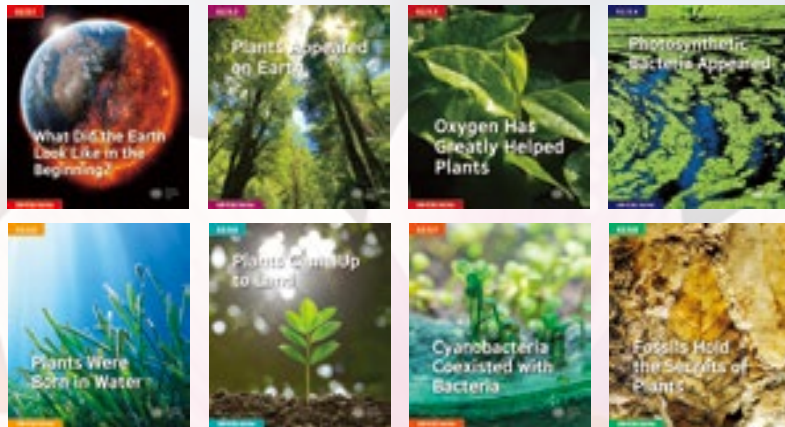
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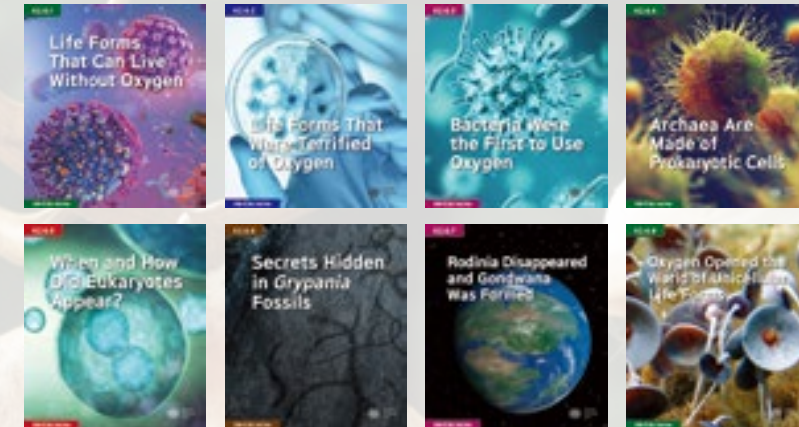
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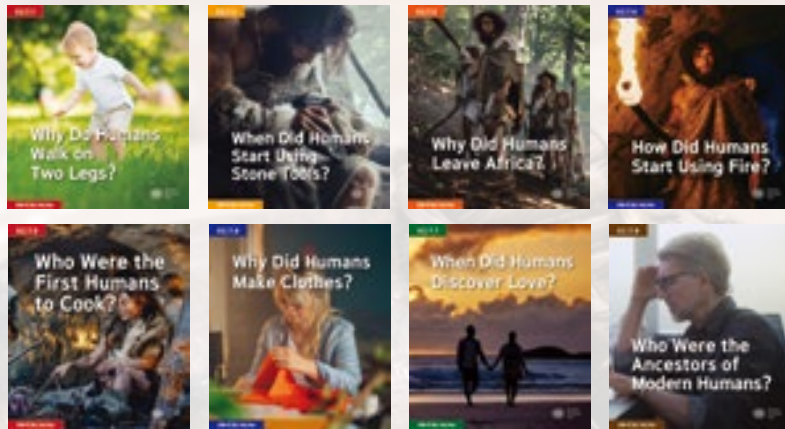
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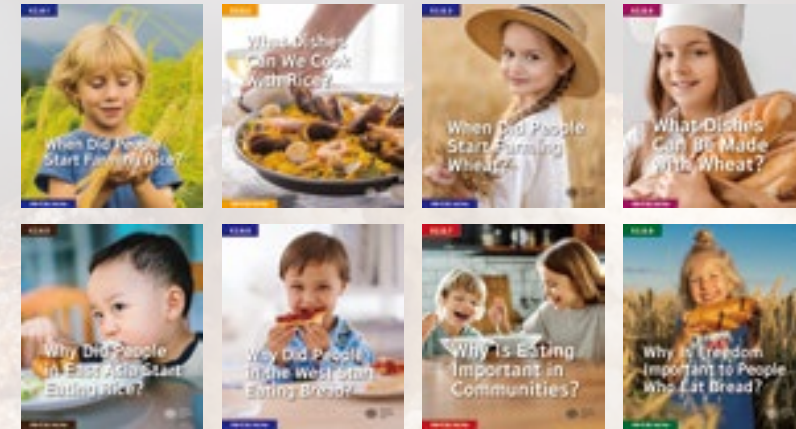
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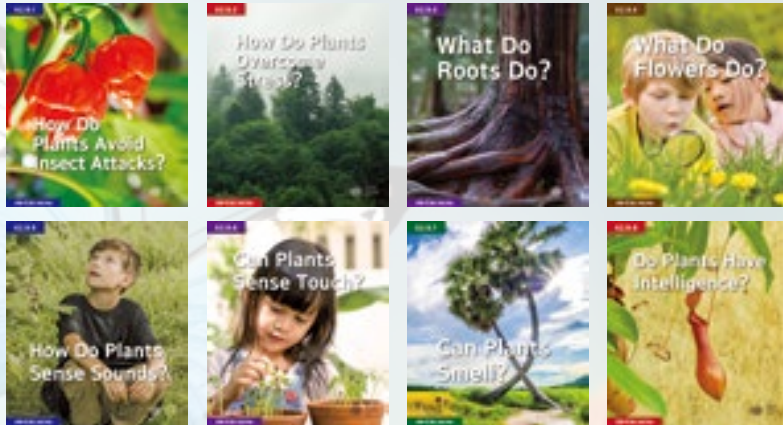
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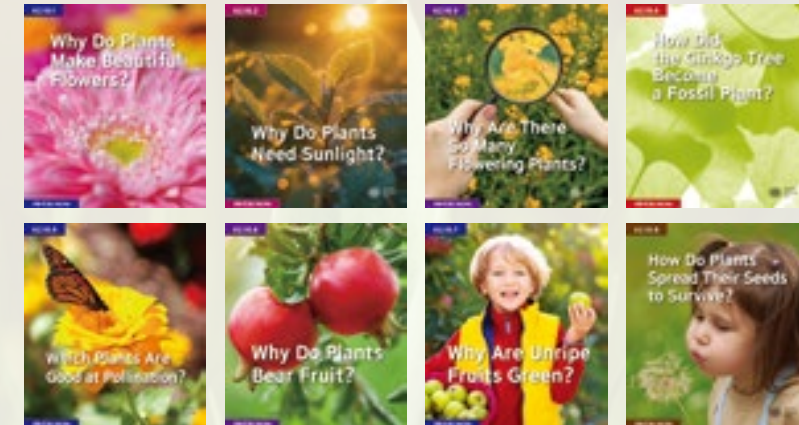
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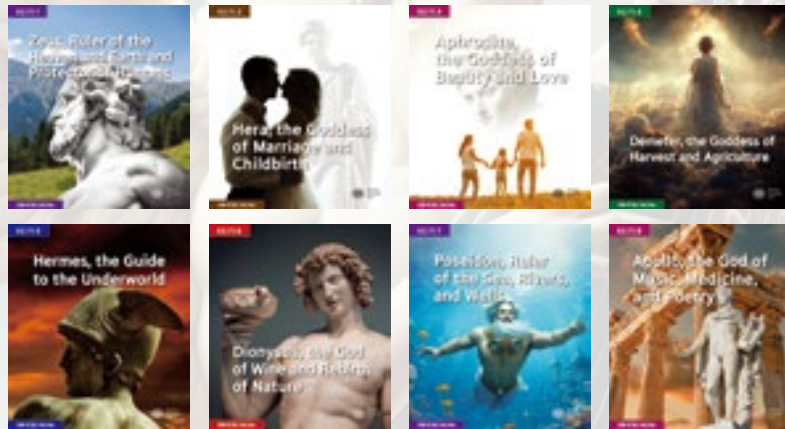
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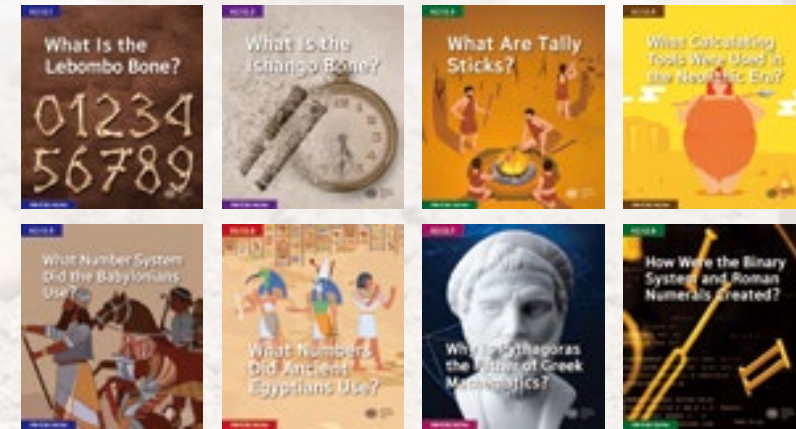
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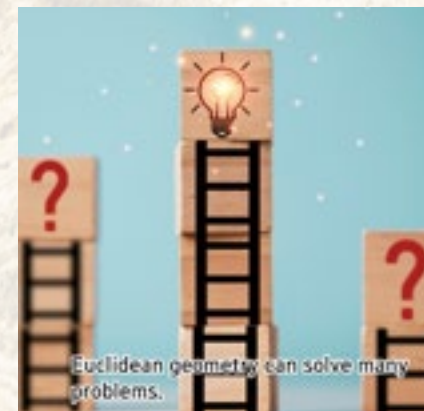


A DESIRABLE APPROACH TO MATHEMATICS EDUCATION INVOLVES A SERIES OF EXERCISES AIMED AT UNCOVERING THE SECRETS OF NATURE.

LEVEL K3

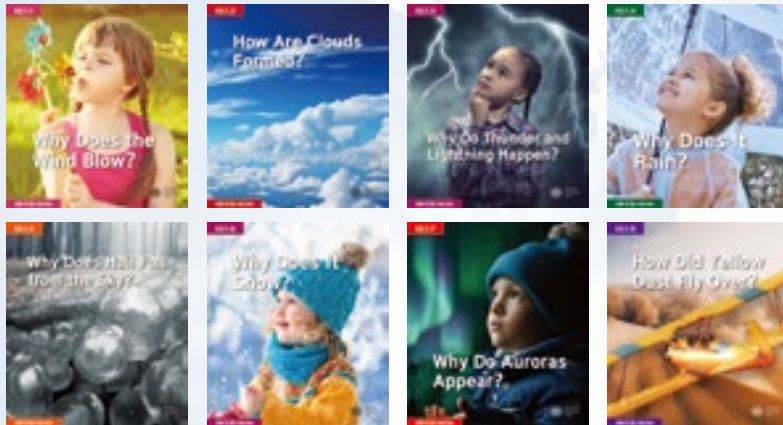


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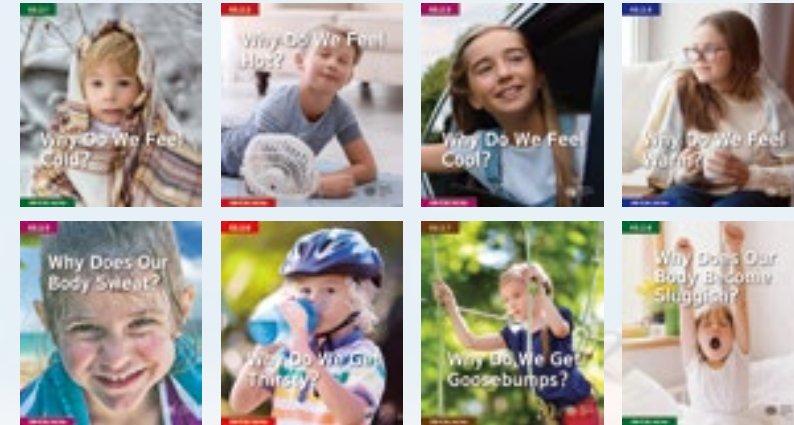
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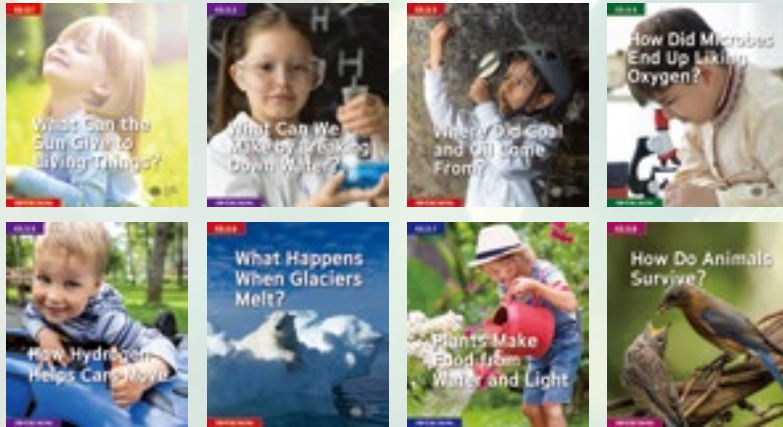
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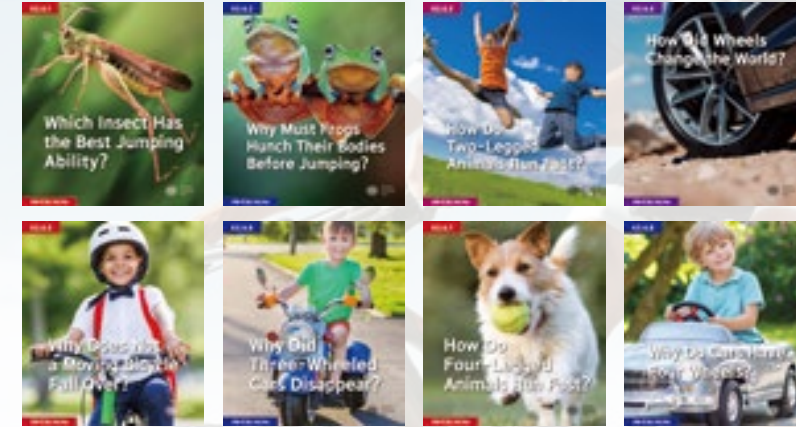
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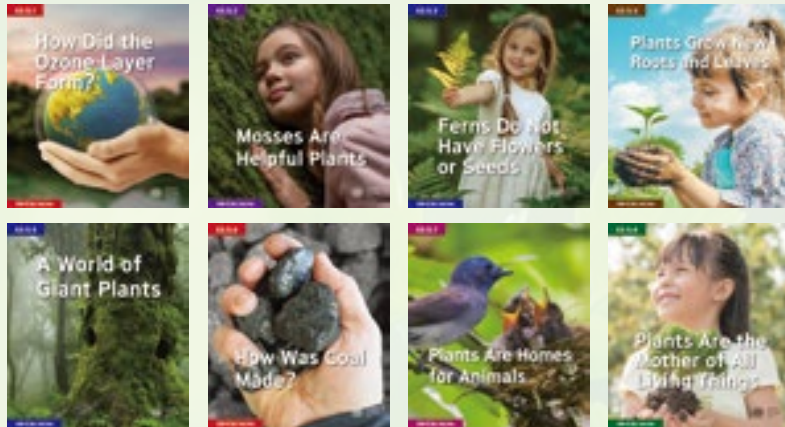
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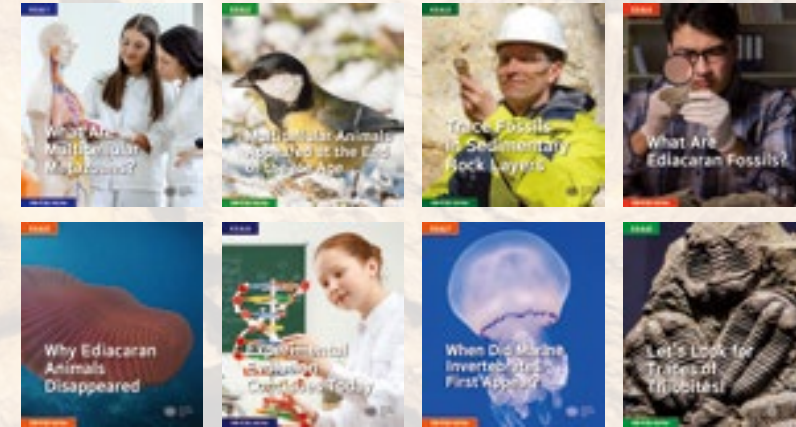
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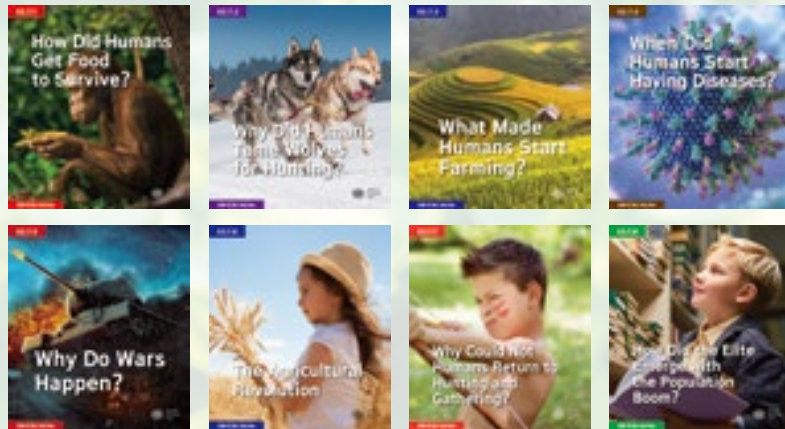
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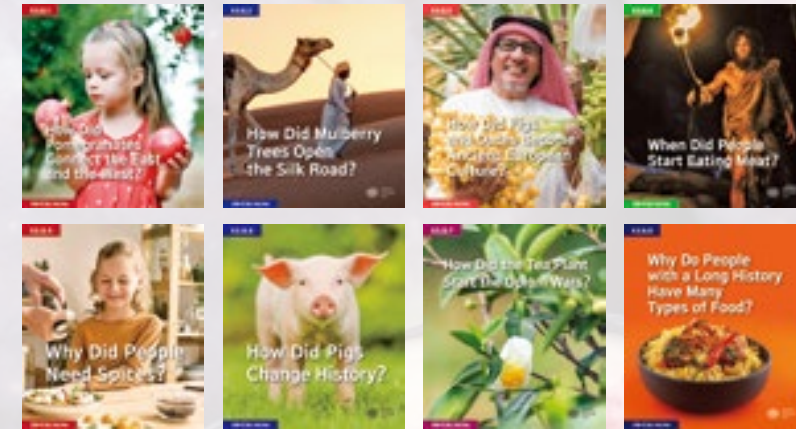
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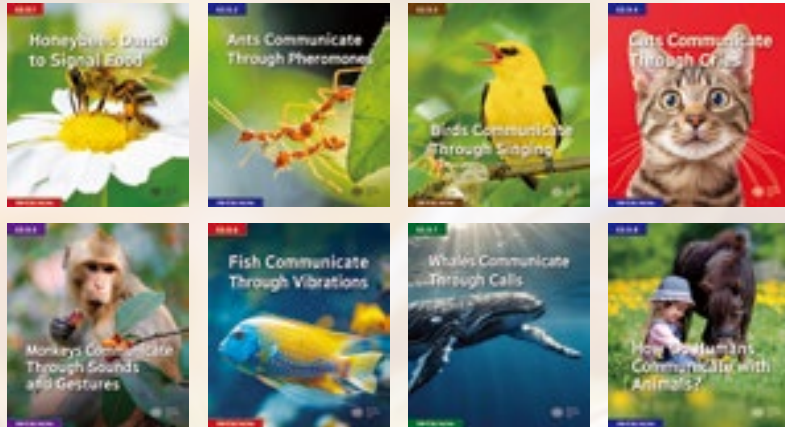
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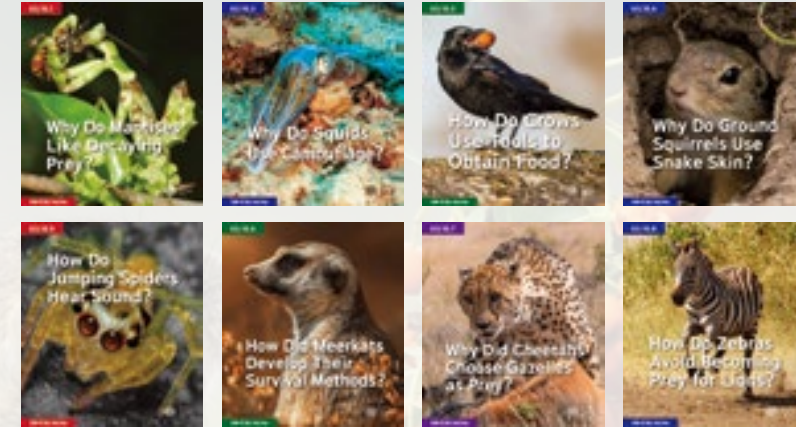
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K3.10.7

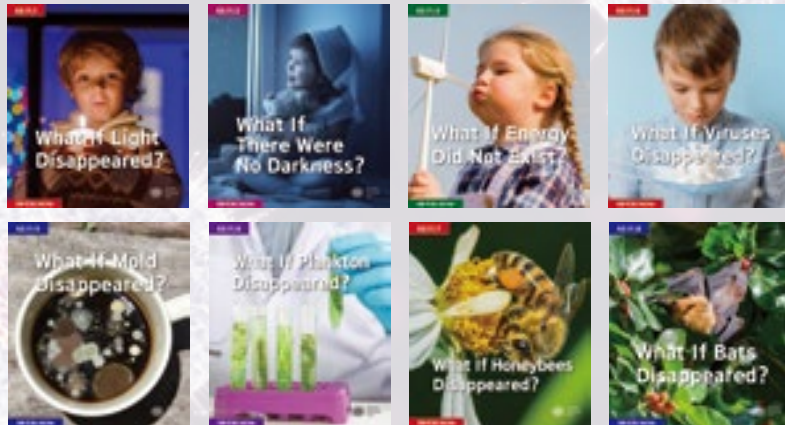
Why Did Cheetahs Choose Gazelles as Prey?

K3.10.8

How Do Zebras Avoid Becoming Prey for Lions?

TOPIC K3.11

Key Factors for the Survival and Preservation of Humanity



K3.11.1

What If Light Disappeared?

K3.11.2

What If There Were No Darkness?

K3.11.3

What If Energy Did Not Exist?

K3.11.4

What If Viruses Disappeared?

K3.11.5

What If Mold Disappeared?

K3.11.6

What If Plankton Disappeared?

K3.11.7

What If Honeybees Disappeared?

K3.11.8

What If Bats Disappeared?

TOPIC K3.12

Civilization and Society Shaped by Great Mathematicians



K3.12.1

Thales Measured the Pyramids with a Stick

K3.12.2

Pythagoras Coined the Term "Mathematics"

K3.12.3

Ptolemy and the Geocentric Universe

K3.12.4

Euclid Wrote the First Mathematics Book

K3.12.5

Archimedes Discovered the Principle of Buoyancy

K3.12.6

Eratosthenes Measured the Earth's Circumference

K3.12.7

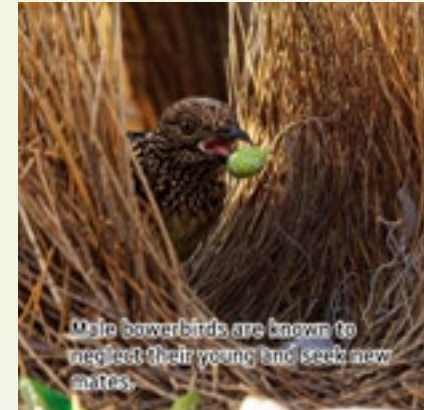
Hipparchus Measured the Distance from the Earth to the Moon

K3.12.8

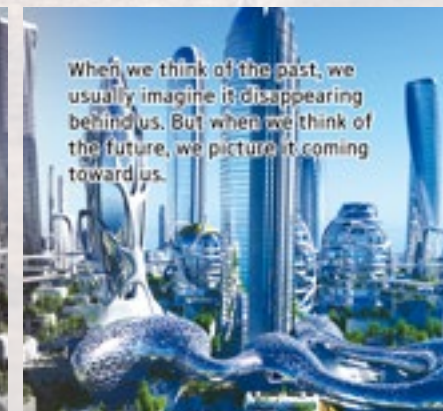
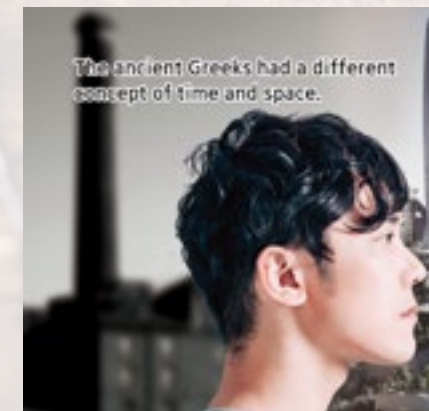
Heron, the Greatest Experimenter and Engineer of Ancient Times



LEVEL K4



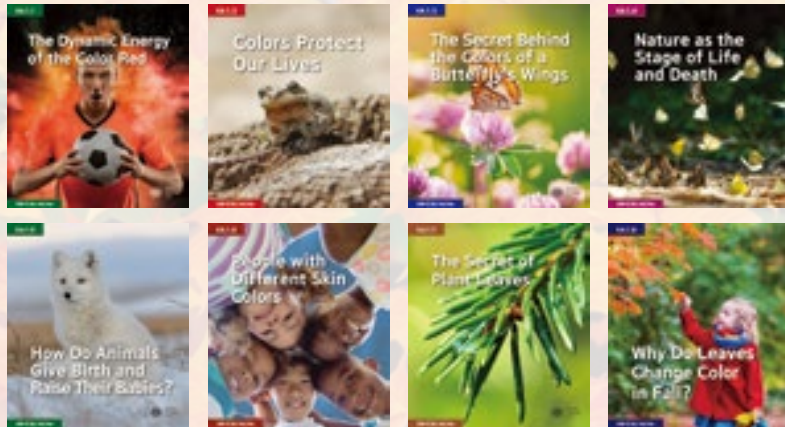
- K4.1 The Stunning Beauty of Nature All Around Us
- K4.2 Imagine a World Where You Could See What I Hear
- K4.3 What Would Our World Be Like Without Smell?
- K4.4 How Do Different Tastes Benefit Our Bodies?
- K4.5 The Ability to Identify the Unique Properties of Materials
- K4.6 How Plants and Animals Use Their Senses to Survive and Thrive
- K4.7 The Amazing Secrets of How Plants and Animals Preserve ...
- K4.8 The Eternal Present in Time and Space
- K4.9 The Birth and Expression of Numbers
- K4.10 The History of Space and Time in Fossils and Strata
- K4.11 The Observation and Illustration of Motifs in Biology
- K4.12 Probability Explains Random Events or Uncertainties with ...



MATHEMATICS BOOKS SHOULD FOSTER AN UNDERSTANDING OF NATURE WHILE PROVIDING INSIGHT INTO HUMANITY AND SOCIETY.

TOPIC K4.1

The Stunning Beauty of Nature All Around Us



K4.1.1

The Dynamic Energy of the Color Red

K4.1.2

Colors Protect Our Lives

K4.1.3

The Secret Behind the Colors of a Butterfly's Wings

K4.1.4

Nature as the Stage of Life and Death

K4.1.5

How Do Animals Give Birth and Raise Their Babies?

K4.1.6

People with Different Skin Colors

K4.1.7

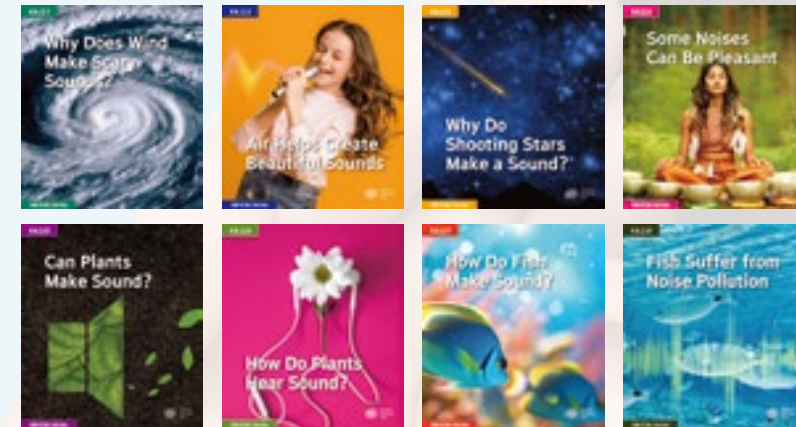
The Secret of Plant Leaves

K4.1.8

Why Do Leaves Change Color in Fall?

TOPIC K4.2

Imagine a World Where You Could See What I Hear



K4.2.1

Why Does Wind Make Scary Sounds?

K4.2.2

Air Helps Create Beautiful Sounds

K4.2.3

Why Do Shooting Stars Make a Sound?

K4.2.4

Some Noises Can Be Pleasant

K4.2.5

Can Plants Make Sound?

K4.2.6

How Do Plants Hear Sound?

K4.2.7

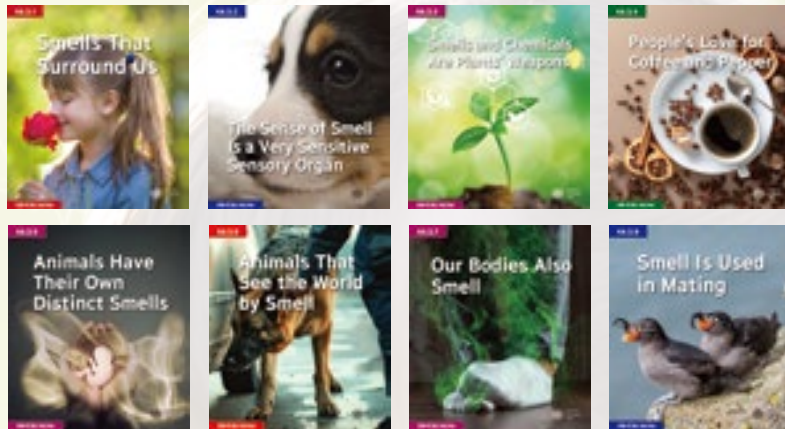
How Do Fish Make Sound?

K4.2.8

Fish Suffer from Noise Pollution

TOPIC K4.3

What Would Our World Be Like Without Smell?



K4.3.1

Smells That Surround Us

K4.3.2

The Sense of Smell Is a Very Sensitive Sensory Organ

K4.3.3

Smells and Chemicals Are Plants' Weapons

K4.3.4

People's Love for Coffee and Pepper

K4.3.5

Animals Have Their Own Distinct Smells

K4.3.6

Animals That See the World by Smell

K4.3.7

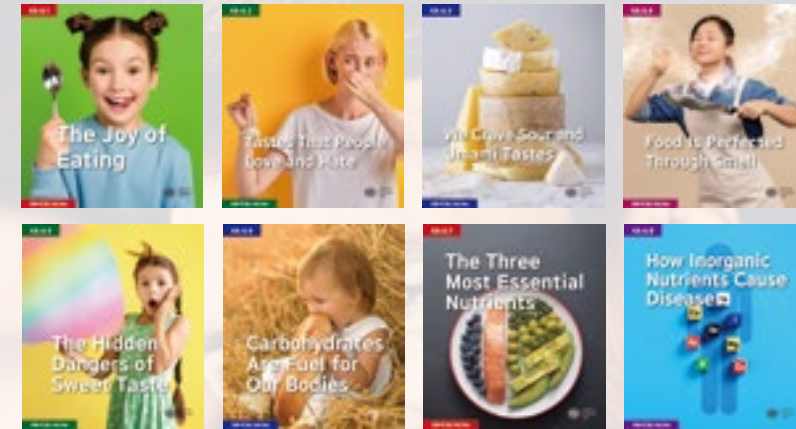
Our Bodies Also Smell

K4.3.8

Smell Is Used in Mating

TOPIC K4.4

How Do Different Tastes Benefit Our Bodies?



K4.4.1

The Joy of Eating

K4.4.2

Tastes That People Love and Hate

K4.4.3

We Crave Sour and Umami Tastes

K4.4.4

Food Is Perfected Through Smell

K4.4.5

The Hidden Dangers of Sweet Taste

K4.4.6

Carbohydrates Are Fuel for Our Bodies

K4.4.7

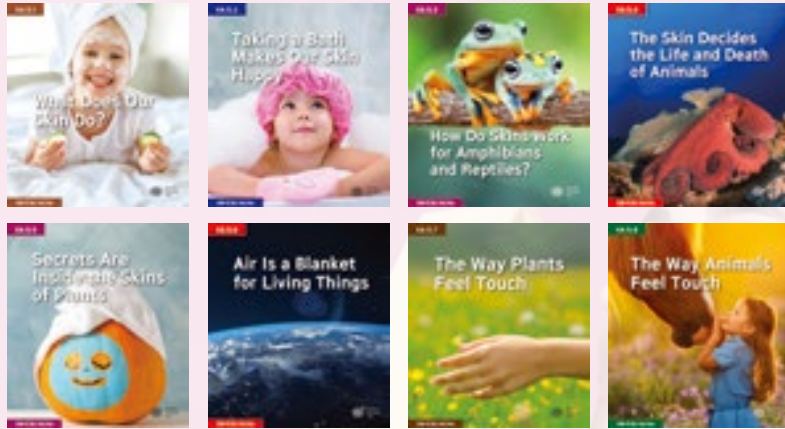
The Three Most Essential Nutrients

K4.4.8

How Inorganic Nutrients Cause Diseases

TOPIC K4.5

The Ability to Identify the Unique Properties of Materials



K4.5.1

What Does Our Skin Do?

K4.5.2

Taking a Bath Makes Our Skin Happy

K4.5.3

How Do Skins Work for Amphibians and Reptiles?

K4.5.4

The Skin Decides the Life and Death of Animals

K4.5.5

Secrets Are Inside the Skins of Plants

K4.5.6

Air Is a Blanket for Living Things

K4.5.7

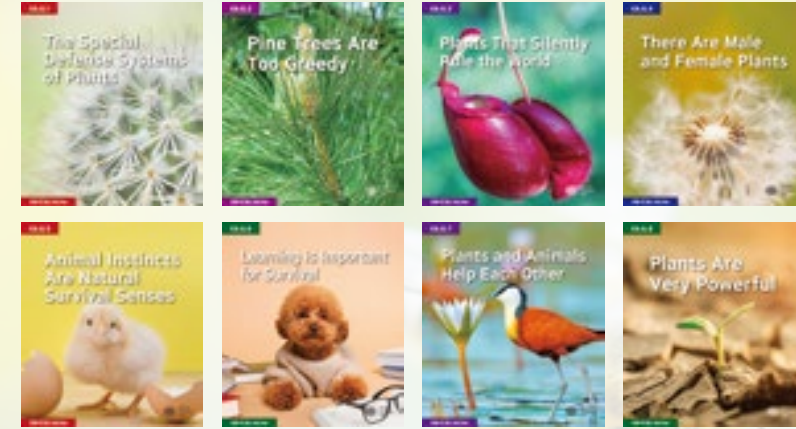
The Way Plants Feel Touch

K4.5.8

The Way Animals Feel Touch

TOPIC K4.6

How Plants and Animals Use Their Senses to Survive and Thrive



K4.6.1

The Special Defense Systems of Plants

K4.6.2

Pine Trees Are Too Greedy

K4.6.3

Plants That Silently Rule the World

K4.6.4

There Are Male and Female Plants

K4.6.5

Animal Instincts Are Natural Survival Senses

K4.6.6

Learning Is Important for Survival

K4.6.7

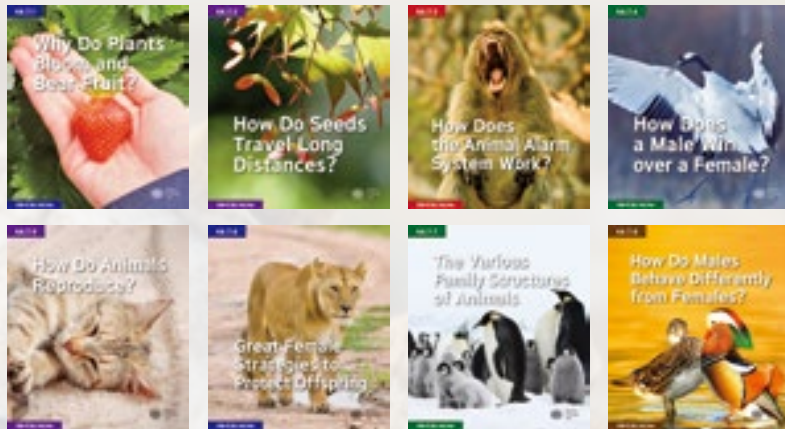
Plants and Animals Help Each Other

K4.6.8

Plants Are Very Powerful

TOPIC K4.7

The Amazing Secrets of How Plants and Animals Preserve Their Species



K4.7.1

Why Do Plants Bloom and Bear Fruit?

K4.7.2

How Do Seeds Travel Long Distances?

K4.7.3

How Does the Animal Alarm System Work?

K4.7.4

How Does a Male Win over a Female?

K4.7.5

How Do Animals Reproduce?

K4.7.6

Great Female Strategies to Protect Offspring

K4.7.7

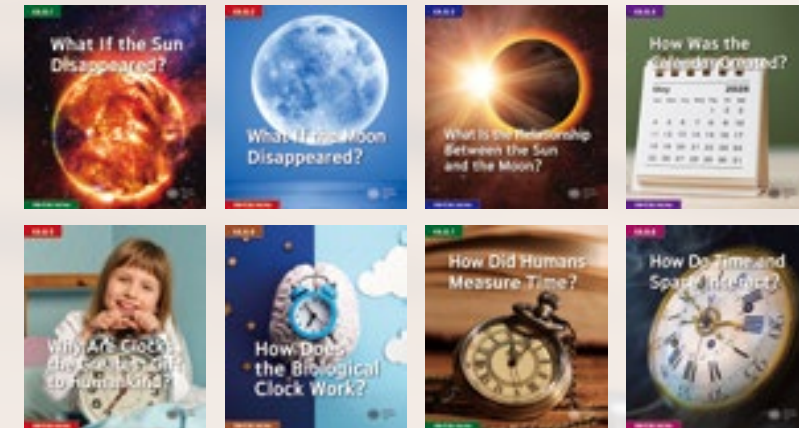
The Various Family Structures of Animals

K4.7.8

How Do Males Behave Differently from Females?

TOPIC K4.8

The Eternal Present in Time and Space



K4.8.1

What If the Sun Disappeared?

K4.8.2

What If the Moon Disappeared?

K4.8.3

What Is the Relationship Between the Sun and the Moon?

K4.8.4

How Was the Calendar Created?

K4.8.5

Why Are Clocks the Greatest Gift to Humankind?

K4.8.6

How Does the Biological Clock Work?

K4.8.7

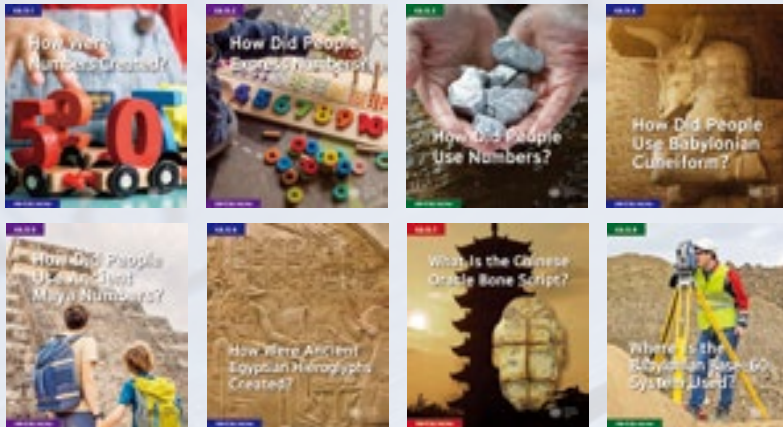
How Did Humans Measure Time?

K4.8.8

How Do Time and Space Interact?

TOPIC K4.9

The Birth and Expression of Numbers



K4.9.1

How Were Numbers Created?

K4.9.2

How Did People Express Numbers?

K4.9.3

How Did People Use Numbers?

K4.9.4

How Did People Use Babylonian Cuneiform?

K4.9.5

How Did People Use Ancient Maya Numbers?

K4.9.6

How Were Ancient Egyptian Hieroglyphs Created?

K4.9.7

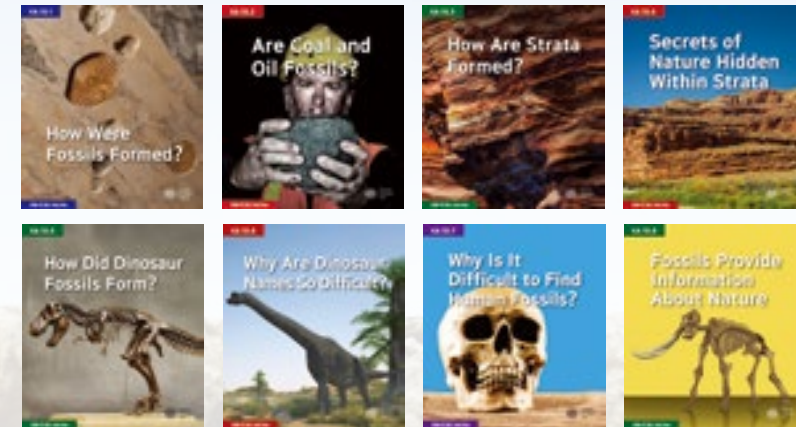
What Is the Chinese Oracle Bone Script?

K4.9.8

Where Is the Babylonian Base-60 System Used?

TOPIC K4.10

The History of Space and Time in Fossils and Strata



K4.10.1

How Were Fossils Formed?

K4.10.2

Are Coal and Oil Fossils?

K4.10.3

How Are Strata Formed?

K4.10.4

Secrets of Nature Hidden Within Strata

K4.10.5

How Did Dinosaur Fossils Form?

K4.10.6

Why Are Dinosaur Names So Difficult?

K4.10.7

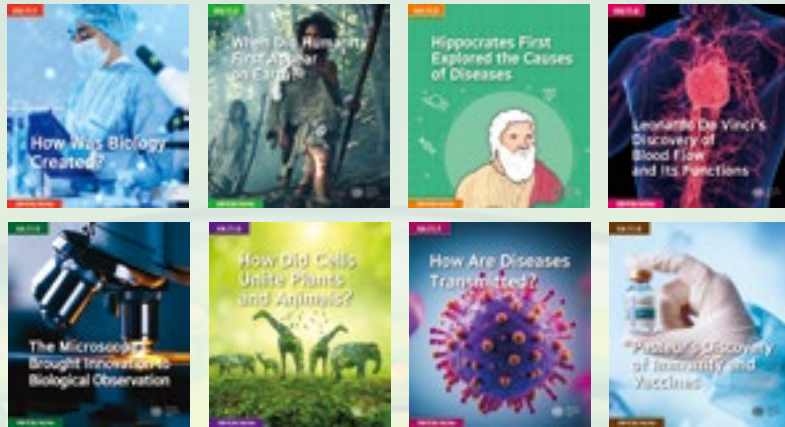
Why Is It Difficult to Find Human Fossils?

K4.10.8

Fossils Provide Information About Nature

TOPIC K4.11

The Observation and Illustration of Motifs in Biology



K4.11.1

How Was Biology Created?

K4.11.2

When Did Humanity First Appear on Earth?

K4.11.3

Hippocrates First Explored the Causes of Diseases

K4.11.4

Leonardo Da Vinci's Discovery of Blood Flow and Its Functions

K4.11.5

The Microscope Brought Innovation to Biological Observation

K4.11.6

How Did Cells Unite Plants and Animals?

K4.11.7

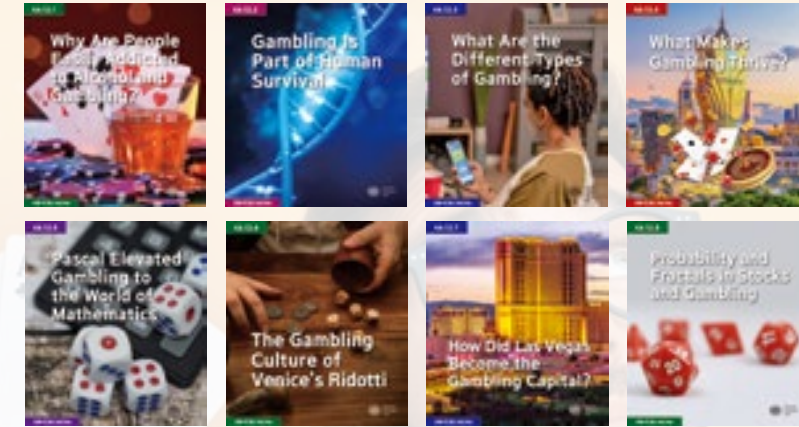
How Are Diseases Transmitted?

K4.11.8

Pasteur's Discovery of Immunity and Vaccines

TOPIC K4.12

Probability Explains Random Events or Uncertainties with Numbers



K4.12.1

Why Are People Easily Addicted to Alcohol and Gambling?

K4.12.2

Gambling Is Part of Human Survival

K4.12.3

What Are the Different Types of Gambling?

K4.12.4

What Makes Gambling Thrive?

K4.12.5

Pascal Elevated Gambling to the World of Mathematics

K4.12.6

The Gambling Culture of Venice's Ridotti

K4.12.7

How Did Las Vegas Become the Gambling Capital?

K4.12.8

Probability and Fractals in Stocks and Gambling



TO BECOME THE STANDARD IN GLOBAL MATH EDUCATION, MATHEMATICS MUST BE THE STUDY OF UNCOVERING THE SECRETS OF NATURE.

LEVEL K5

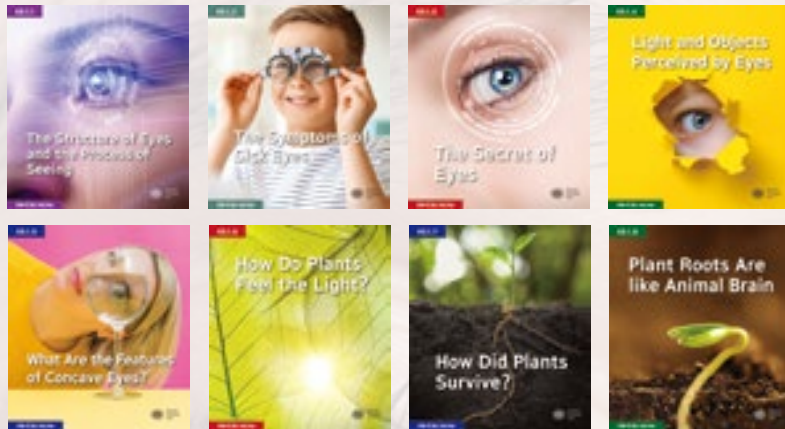


- K5.1 How Our Eyes Work and How Plants Detect Light
- K5.2 The Structure of Ears and How Sound Travels as Vibrations ...
- K5.3 The Odor Map, a Mathematical Model of Olfactory Perception
- K5.4 The Structure of the Tongue and How Taste Helps Us Survive
- K5.5 The Importance of Touch as the Guardian of Life Instincts
- K5.6 The Principles of Instinctive Exploration and the Sense of ...
- K5.7 Exploring Chemical Sensing, Animals' Mysterious Sixth Sense
- K5.8 Gravity, the Force of Attraction Between Objects with Mass
- K5.9 The Significance of Numbers and Letters in Civilizations
- K5.10 Plant Motifs: Nature's Way of Communicating with Humans
- K5.11 Chemistry That Changed History: From Glass to Camouflage ...
- K5.12 The Power of Statistics in Prediction Using Data Analysis



TOPIC K5.1

How Our Eyes Work and How Plants Detect Light



K5.1.1

The Structure of Eyes and the Process of Seeing

K5.1.2

The Symptoms of Sick Eyes

K5.1.3

The Secret of Eyes

K5.1.4

Light and Objects Perceived by Eyes

K5.1.5

What Are the Features of Concave Eyes?

K5.1.6

How Do Plants Feel the Light?

K5.1.7

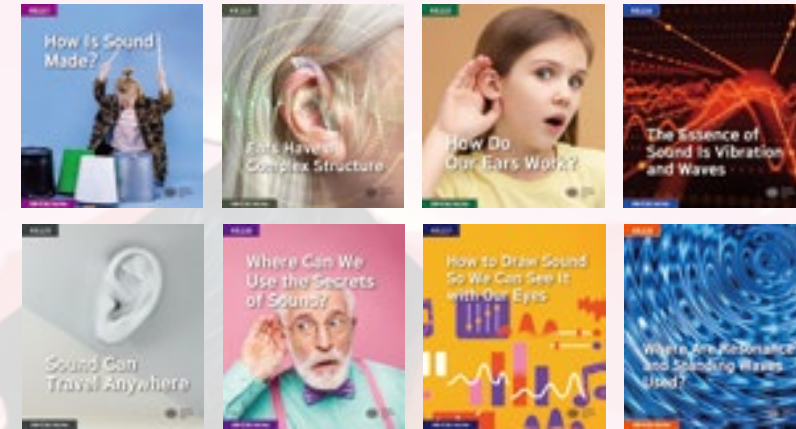
How Did Plants Survive?

K5.1.8

Plant Roots Are like Animal Brains

TOPIC K5.2

The Structure of Ears and How Sound Travels as Vibrations and Waves



K5.2.1

How Is Sound Made?

K5.2.2

Ears Have a Complex Structure

K5.2.3

How Do Our Ears Work?

K5.2.4

The Essence of Sound Is Vibration and Waves

K5.2.5

Sound Can Travel Anywhere

K5.2.6

Where Can We Use the Secrets of Sound?

K5.2.7

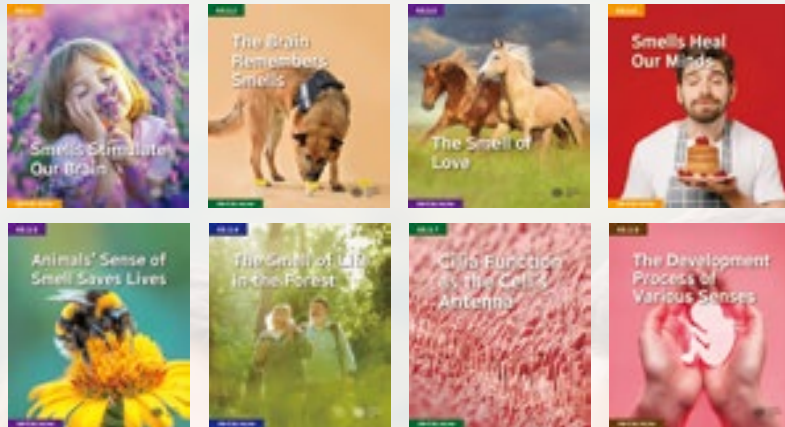
How to Draw Sound So We Can See It with Our Eyes

K5.2.8

Where Are Resonance and Standing Waves Used?

TOPIC K5.3

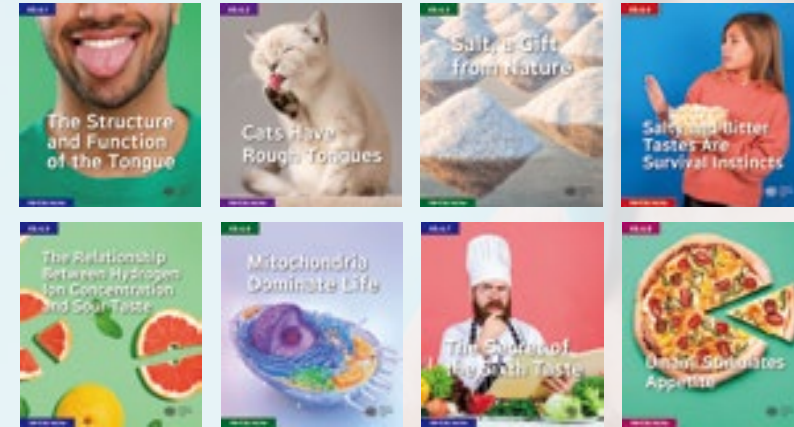
The Odor Map, a Mathematical Model of Olfactory Perception



- K5.3.1 Smells Stimulate Our Brain
- K5.3.2 The Brain Remembers Smells
- K5.3.3 The Smell of Love
- K5.3.4 Smells Heal Our Minds
- K5.3.5 Animals' Sense of Smell Saves Lives
- K5.3.6 The Smell of Life in the Forest
- K5.3.7 Cilia Function as the Cell's Antenna
- K5.3.8 The Development Process of Various Senses

TOPIC K5.4

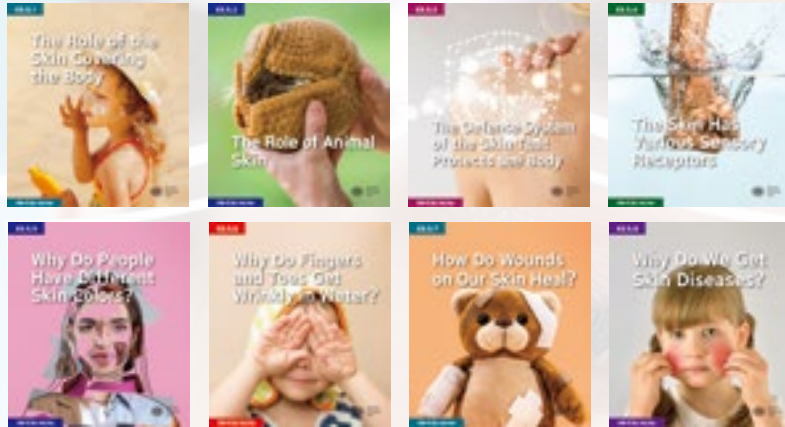
The Structure of the Tongue and How Taste Helps Us Survive



- K5.4.1 The Structure and Function of the Tongue
- K5.4.2 Cats Have Rough Tongues
- K5.4.3 Salt, a Gift from Nature
- K5.4.4 Salty and Bitter Tastes Are Survival Instincts
- K5.4.5 The Relationship Between Hydrogen Ion Concentration and Sour Taste
- K5.4.6 Mitochondria Dominate Life
- K5.4.7 The Secret of the Sixth Taste
- K5.4.8 Umami Stimulates Appetite

TOPIC K5.5

The Importance of Touch as the Guardian of Life Instincts



K5.5.1

The Role of the Skin Covering the Body

K5.5.2

The Role of Animal Skin

K5.5.3

The Defense System of the Skin That Protects the Body

K5.5.4

The Skin Has Various Sensory Receptors

K5.5.5

Why Do People Have Different Skin Colors?

K5.5.6

Why Do Fingers and Toes Get Wrinkly in Water?

K5.5.7

How Do Wounds on Our Skin Heal?

K5.5.8

Why Do We Get Skin Diseases?

TOPIC K5.6

The Principles of Instinctive Exploration and the Sense of Direction



K5.6.1

The Instincts of Animals Beyond the Five Senses

K5.6.2

Animals Use Their Instincts for Survival

K5.6.3

The Instinctive Defense System of Plants and Animals

K5.6.4

The War Between Humans and Viruses

K5.6.5

The Beautiful but Dangerous Journey of Migratory Birds

K5.6.6

Animals with a Compass Inside Their Bodies

K5.6.7

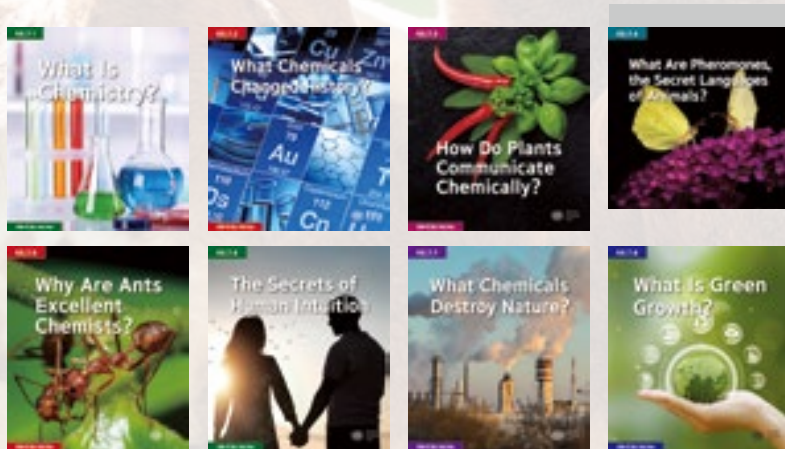
Animals' Mass Migration for Survival

K5.6.8

Parents' Sacrifices Are an Instinct to Preserve the Species

TOPIC K5.7

Exploring Chemical Sensing, Animals' Mysterious Sixth Sense



K5.7.1

What Is Chemistry?

K5.7.2

What Chemicals Changed History?

K5.7.3

How Do Plants Communicate Chemically?

K5.7.4

What Are Pheromones, the Secret Languages of Animals?

K5.7.5

Why Are Ants Excellent Chemists?

K5.7.6

The Secrets of Human Intuition

K5.7.7

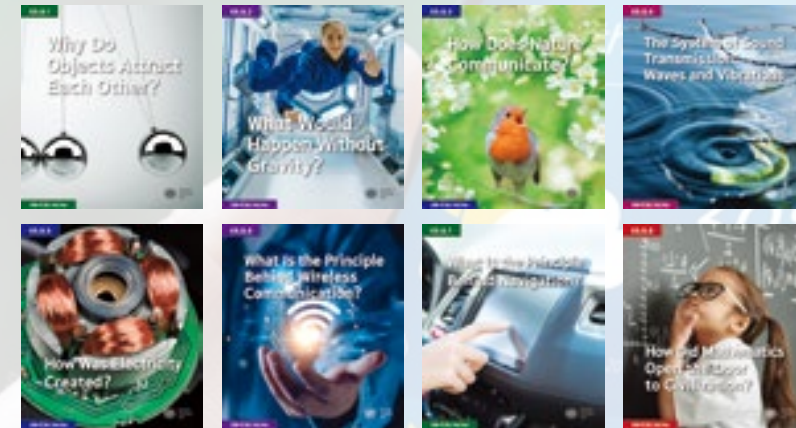
What Chemicals Destroy Nature?

K5.7.8

What Is Green Growth?

TOPIC K5.8

Gravity, the Force of Attraction Between Objects with Mass



K5.8.1

Why Do Objects Attract Each Other?

K5.8.2

What Would Happen Without Gravity?

K5.8.3

How Does Nature Communicate?

K5.8.4

The System of Sound Transmission: Waves and Vibrations

K5.8.5

How Was Electricity Created?

K5.8.6

What Is the Principle Behind Wireless Communication?

K5.8.7

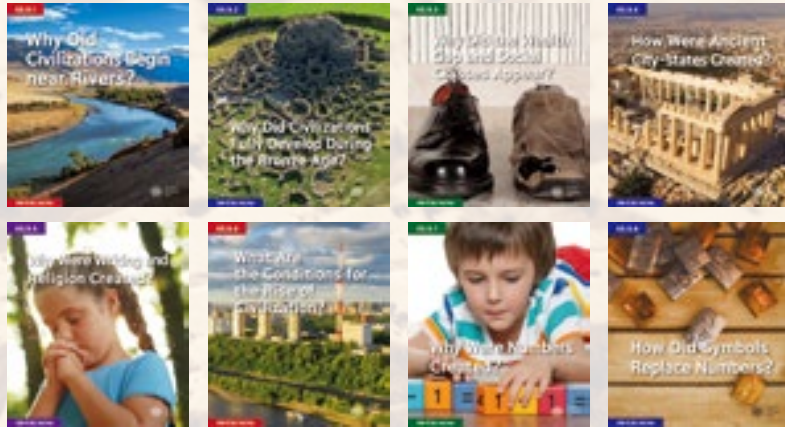
What Is the Principle Behind Navigation?

K5.8.8

How Did Mathematics Open the Door to Civilization?

TOPIC K5.9

The Significance of Numbers and Letters in Civilizations



K5.9.1

Why Did Civilizations Begin near Rivers?

K5.9.2

Why Did Civilizations Fully Develop During the Bronze Age?

K5.9.3

Why Did the Wealth Gap and Social Classes Appear?

K5.9.4

How Were Ancient City-states Created?

K5.9.5

Why Were Writing and Religion Created?

K5.9.6

What Are the Conditions for the Rise of Civilization?

K5.9.7

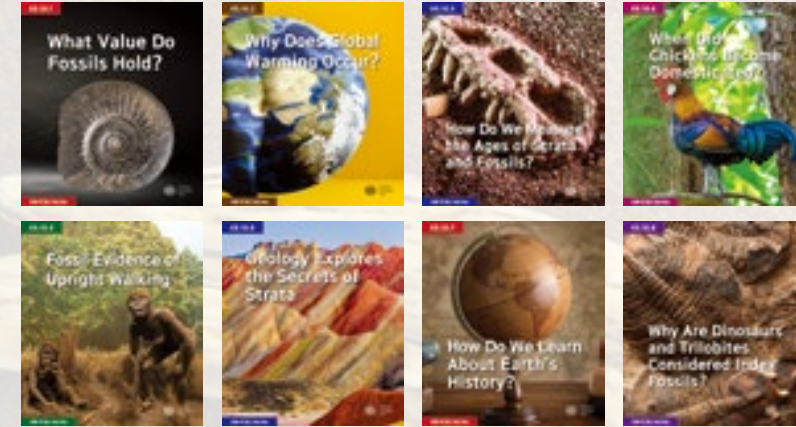
Why Were Numbers Created?

K5.9.8

How Did Symbols Replace Numbers?

TOPIC K5.10

Plant Motifs: Nature's Way of Communicating with Humans



K5.10.1

What Value Do Fossils Hold?

K5.10.2

Why Does Global Warming Occur?

K5.10.3

How Do We Measure the Ages of Strata and Fossils?

K5.10.4

When Did Chickens Become Domesticated?

K5.10.5

Fossil Evidence of Upright Walking

K5.10.6

Geology Explores the Secrets of Strata

K5.10.7

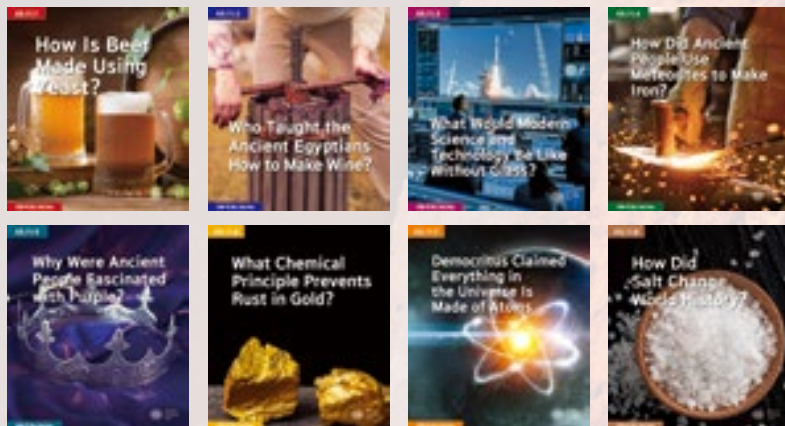
How Do We Learn About Earth's History?

K5.10.8

Why Are Dinosaurs and Trilobites Considered Index Fossils?

TOPIC K5.11

Chemistry That Changed History: From Glass to Camouflage Dyes



K5.11.1

How Is Beer Made Using Yeast?

K5.11.2

Who Taught the Ancient Egyptians How to Make Wine?

K5.11.3

What Would Modern Science and Technology Be Like Without Glass?

K5.11.4

How Did Ancient People Use Meteorites to Make Iron?

K5.11.5

Why Were Ancient People Fascinated with Purple?

K5.11.6

What Chemical Principle Prevents Rust in Gold?

K5.11.7

Democritus Claimed Everything in the Universe Is Made of Atoms

K5.11.8

How Did Salt Change World History?

TOPIC K5.12

The Power of Statistics in Prediction Using Data Analysis



K5.12.1

Why Did Ancient Babylonia Conduct Population and Land Surveys?

K5.12.2

Why Did Ancient Rome Need a Population Census?

K5.12.3

Why Did Churches in Medieval Europe Need Statistics?

K5.12.4

Quetelet's Contributions to Modern Statistics

K5.12.5

Nightingale's Rose Diagram

K5.12.6

What Are the Errors and Traps Hidden in Statistics?

K5.12.7

Statistics Sharpen Our View of the World

K5.12.8

How Did Statistics Dominate Big Data?

A DESIRABLE APPROACH TO MATHEMATICS EDUCATION INVOLVES A SERIES OF EXERCISES AIMED AT UNCOVERING THE SECRETS OF NATURE.

LEVEL K6

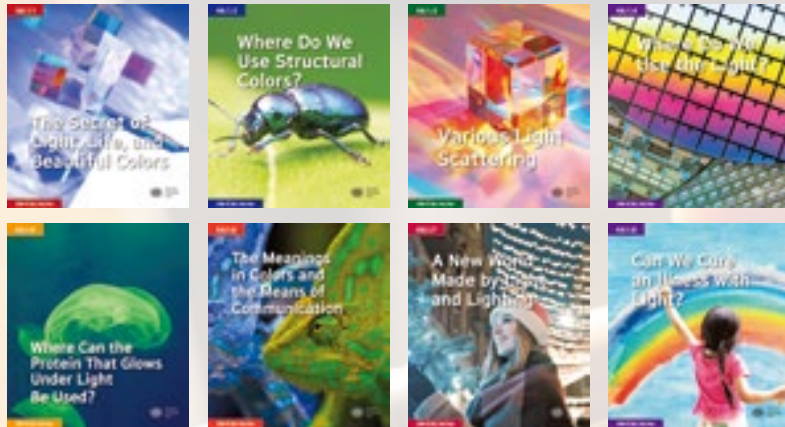


- K6.1 Discovering Life's Secrets and Patterns Through Light and ...
- K6.2 How Can We See Sound?
- K6.3 Understanding the Proust Effect and How We Describe Smell
- K6.4 Instinctive Tastes and Secrets of Survival
- K6.5 Skin, the Frontline Defense System
- K6.6 How to Avoid Danger and Survive
- K6.7 Human Happiness and Biomimicry Inspired by Plants and ...
- K6.8 Exploring Ways to Use Time and Space
- K6.9 Exploring Number Systems and Different Ways to Represent ...
- K6.10 Mathematics, a Series of Exercises to Uncover the Secrets of ...
- K6.11 Exploring the World of Physics Shaped by Invisible Forces ...
- K6.12 Astrology and Astronomy, the Natural Prediction Systems ...



TOPIC K6.1

Discovering Life's Secrets and Patterns Through Light and Color



K6.1.1

The Secret of Light, Life, and Beautiful Colors

K6.1.2

Where Do We Use Structural Colors?

K6.1.3

Various Light Scattering

K6.1.4

Where Do We Use the Light?

K6.1.5

Where Can the Protein That Glows Under Light Be Used?

K6.1.6

The Meanings in Colors and the Means of Communication

K6.1.7

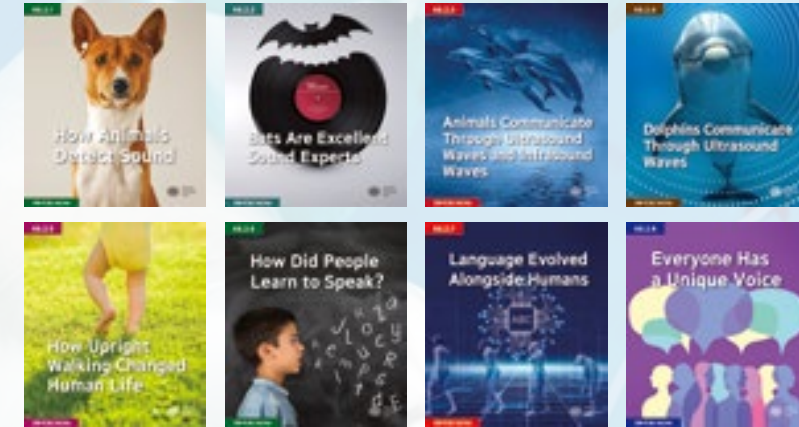
A New World Made by Light and Lighting

K6.1.8

Can We Cure an Illness with Light?

TOPIC K6.2

How Can We See Sound?



K6.2.1

How Animals Detect Sound

K6.2.2

Bats Are Excellent Sound Experts

K6.2.3

Animals Communicate Through Ultrasound Waves and Infrasound Waves

K6.2.4

Dolphins Communicate Through Ultrasound Waves

K6.2.5

How Upright Walking Changed Human Life

K6.2.6

How Did People Learn to Speak?

K6.2.7

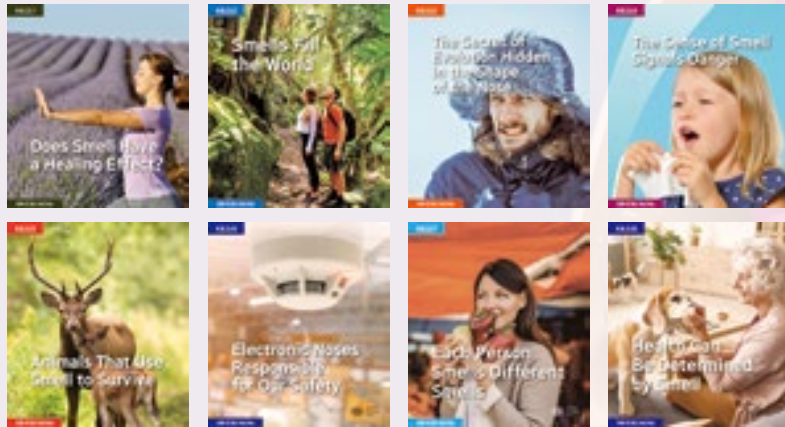
Language Evolved Alongside Humans

K6.2.8

Everyone Has a Unique Voice

TOPIC K6.3

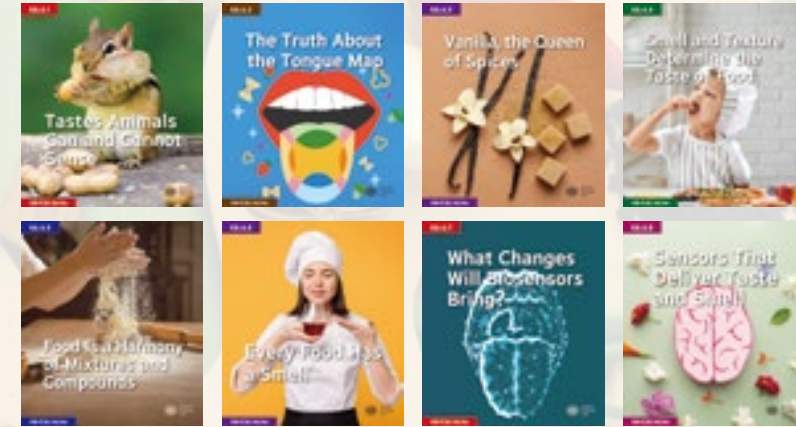
Understanding the Proust Effect and How We Describe Smell



- K6.3.1 Does Smell Have a Healing Effect?
- K6.3.2 Smells Fill the World
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- K6.3.7 Each Person Smells Different Smells
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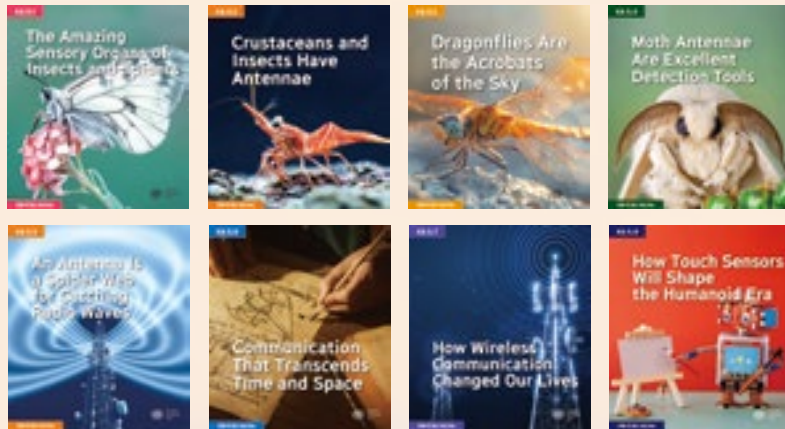
TOPIC K6.4

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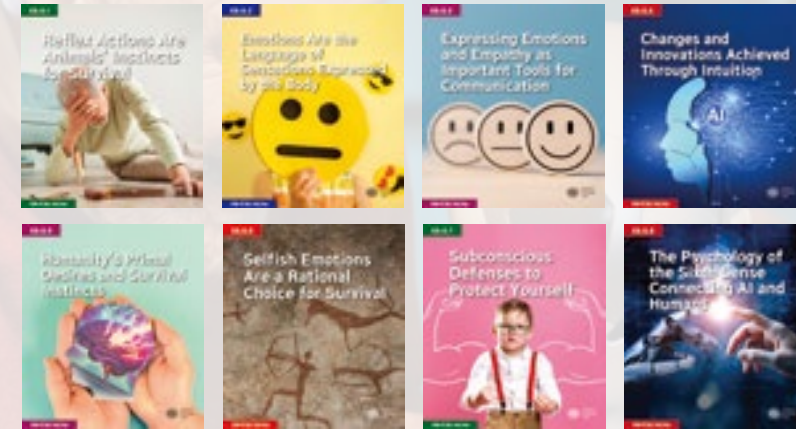
- K6.4.1 Tastes Animals Can and Cannot Sense
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- K6.4.3 Vanilla, the Queen of Spices
- K6.4.4 Smell and Texture Determine the Taste of Food
- K6.4.5 Food Is a Harmony of Mixtures and Compounds
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- K6.4.8 Sensors That Deliver Taste and Smell

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- K6.5.2
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- K6.5.3
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- K6.5.7
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- K6.5.8
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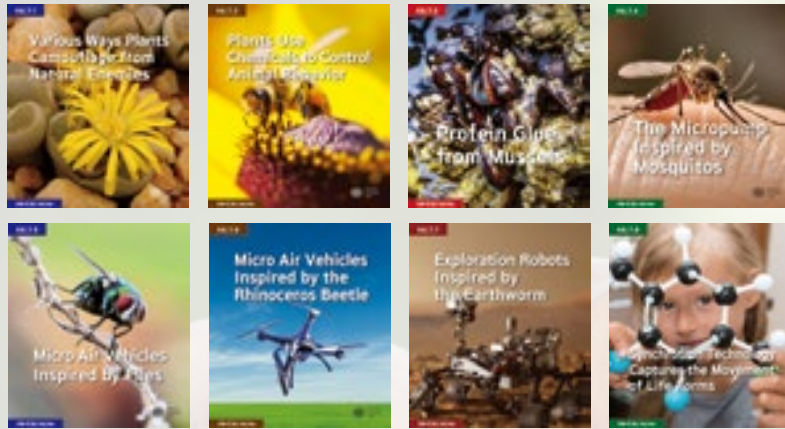
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- K6.6.1
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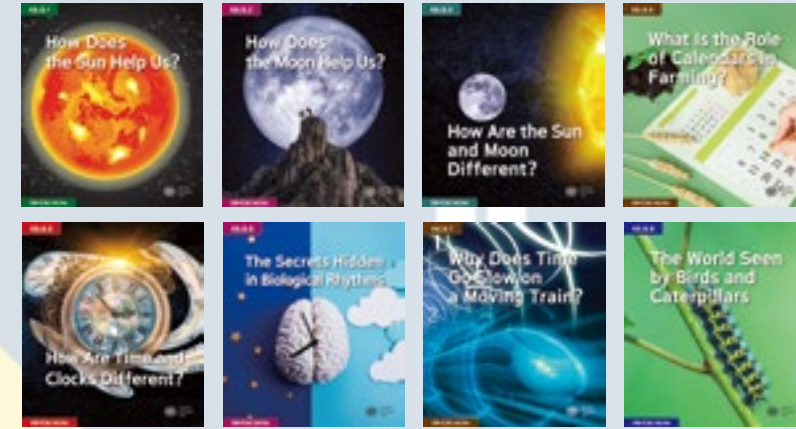
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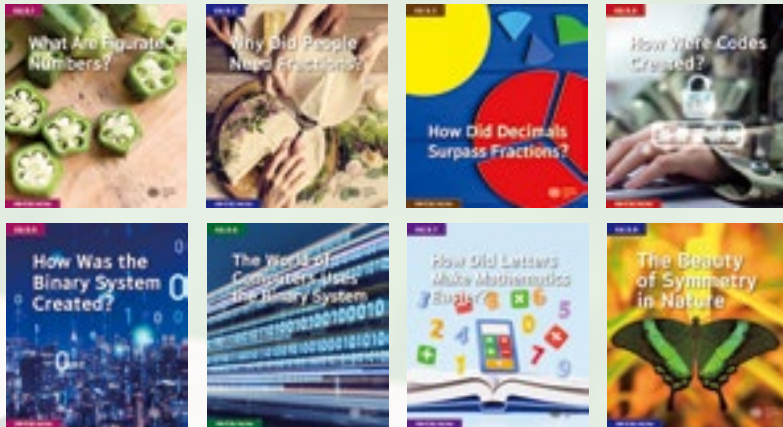
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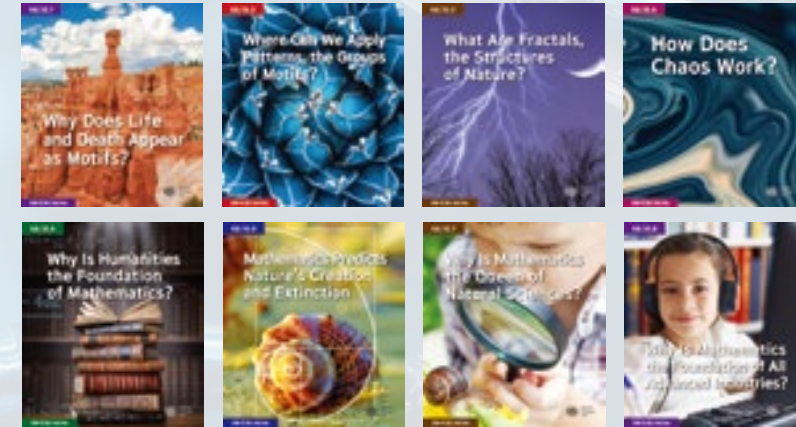
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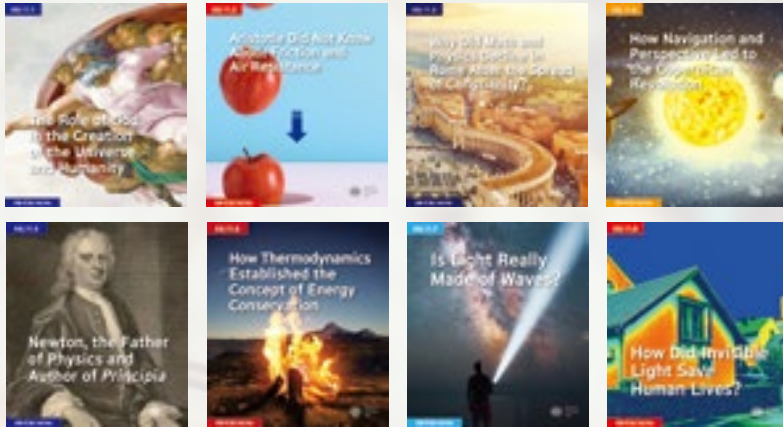
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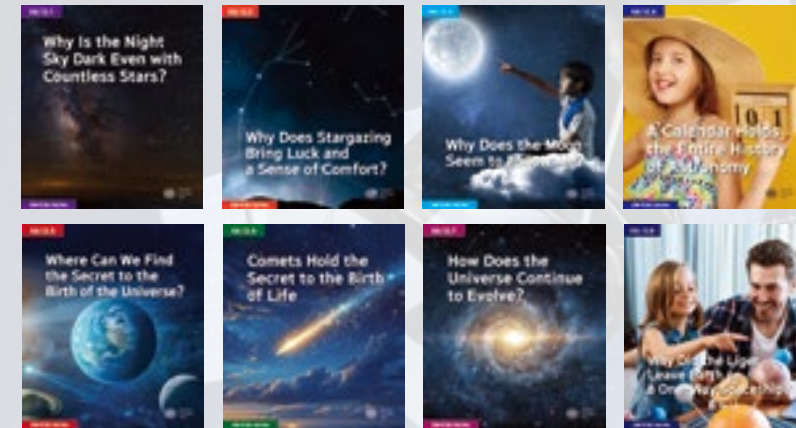
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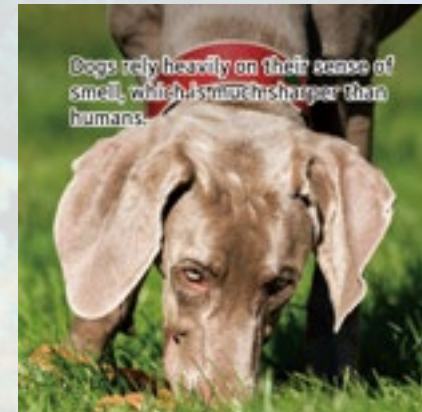
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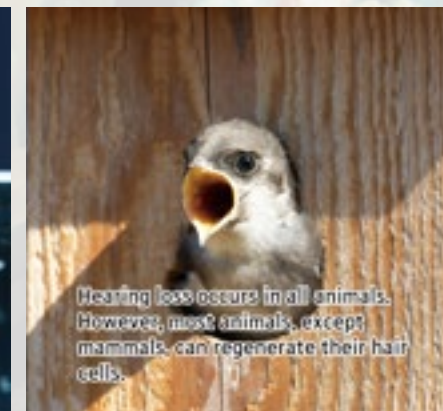
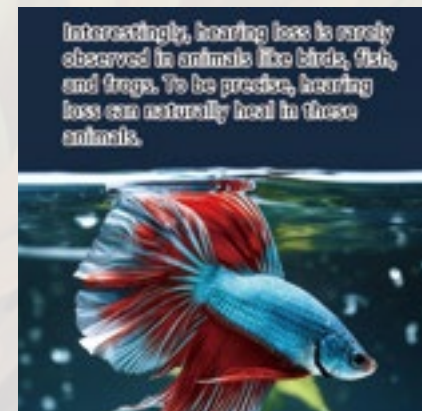
Why Does Understanding the Universe Give Us Insight?

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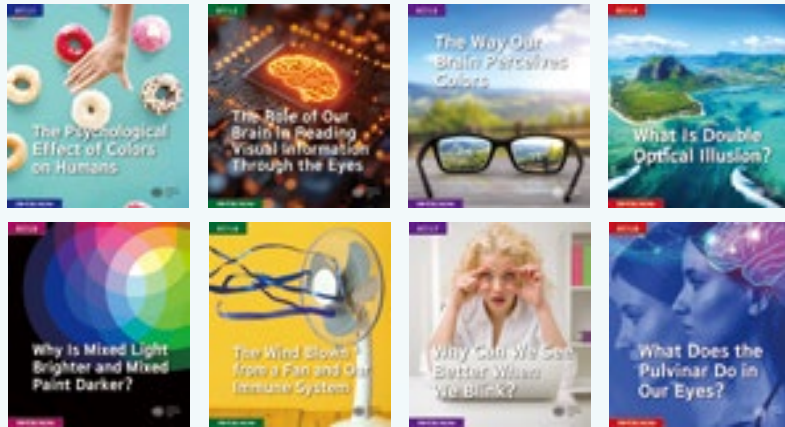


- K7.1 The Scientific Principles of Our Eyes Responsible for Instinct ...
- K7.2 Various Products of Civilization Related to Sound
- K7.3 The Mysteries of the Sense of Smell Revealing Secrets of Life
- K7.4 The Taste Signal System That Alerts Us to Danger
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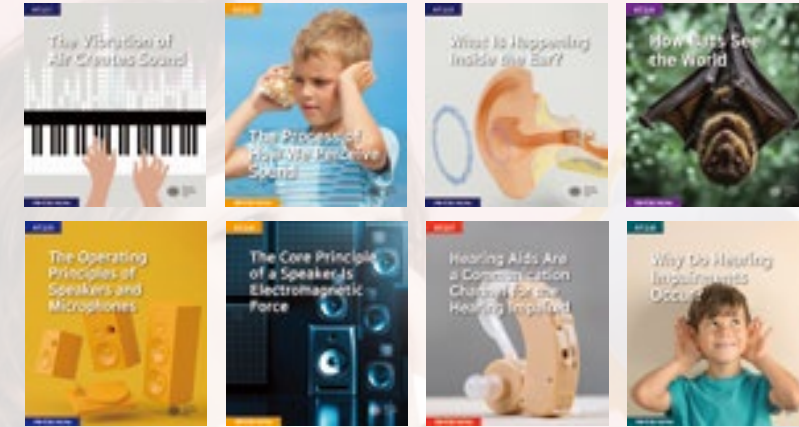
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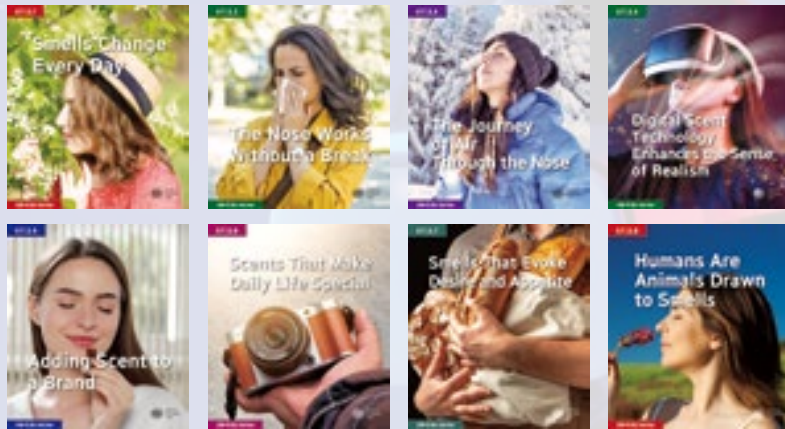
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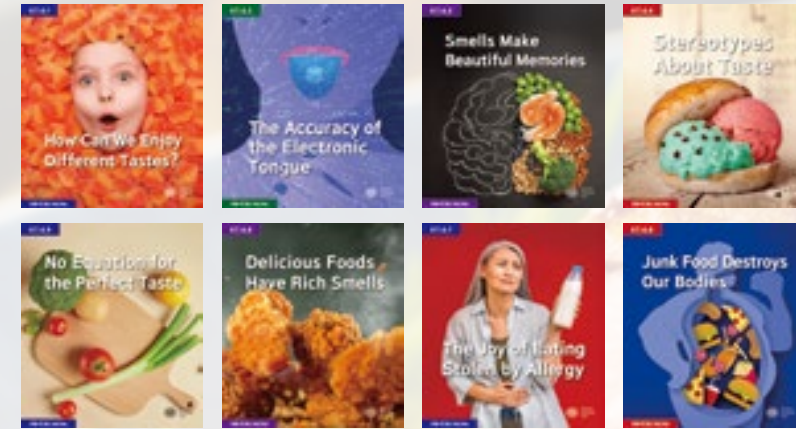
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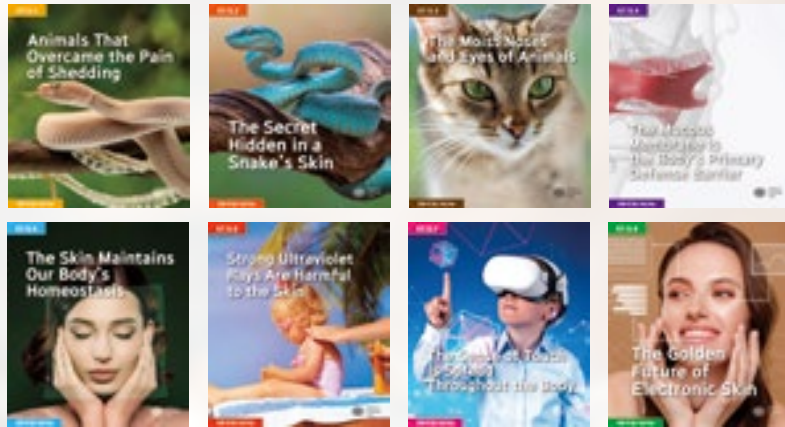
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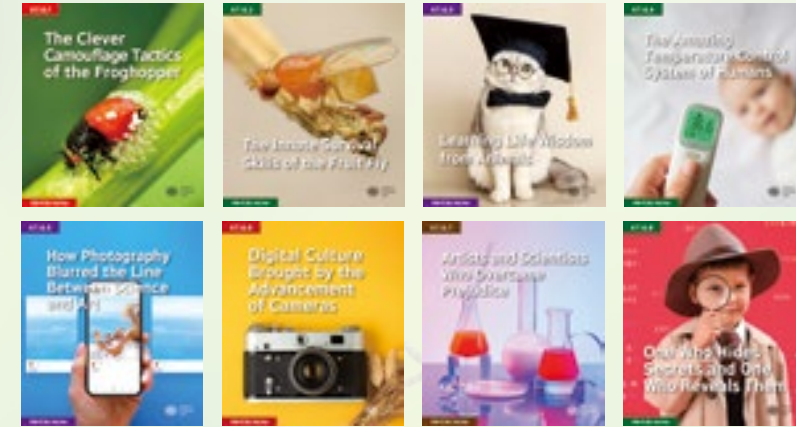
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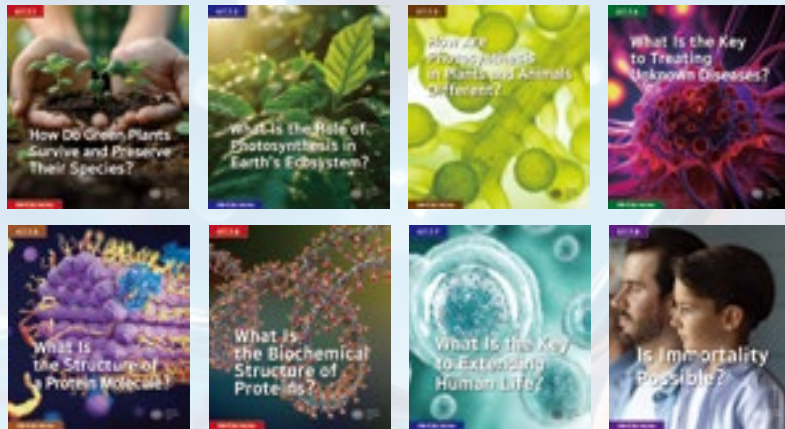
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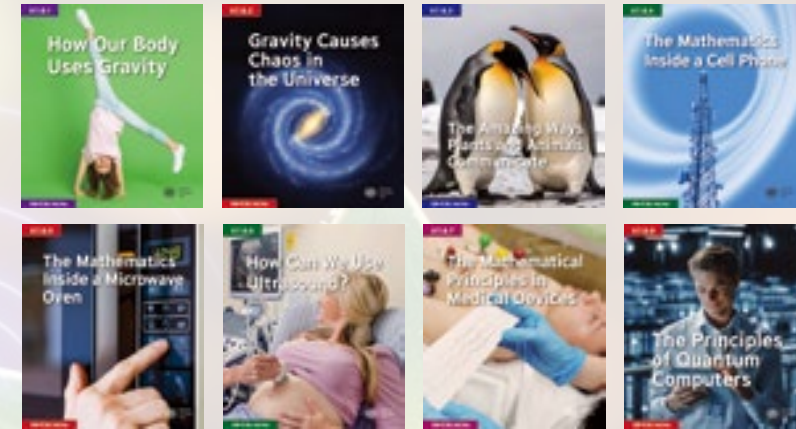
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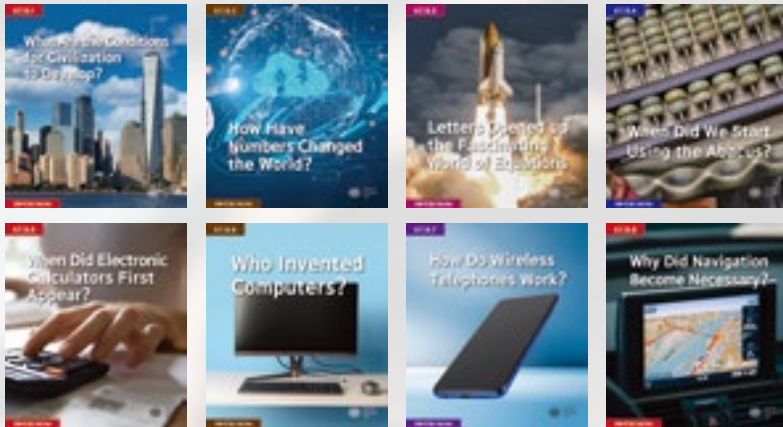
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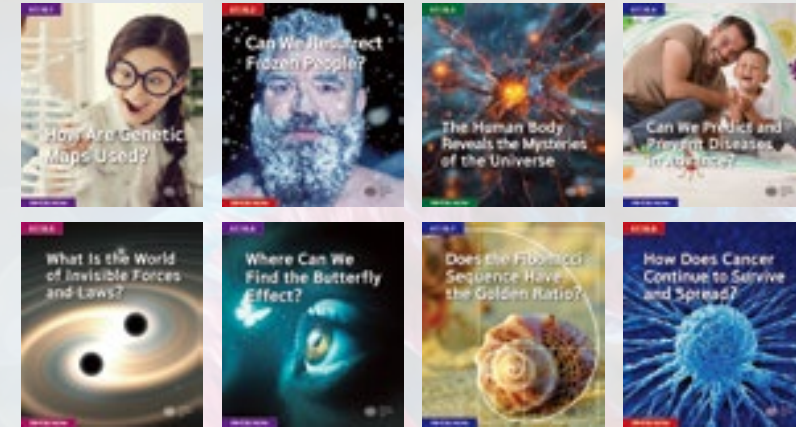
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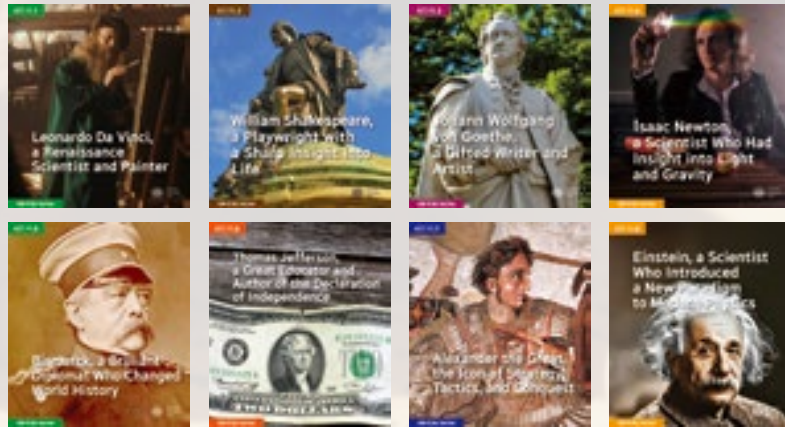
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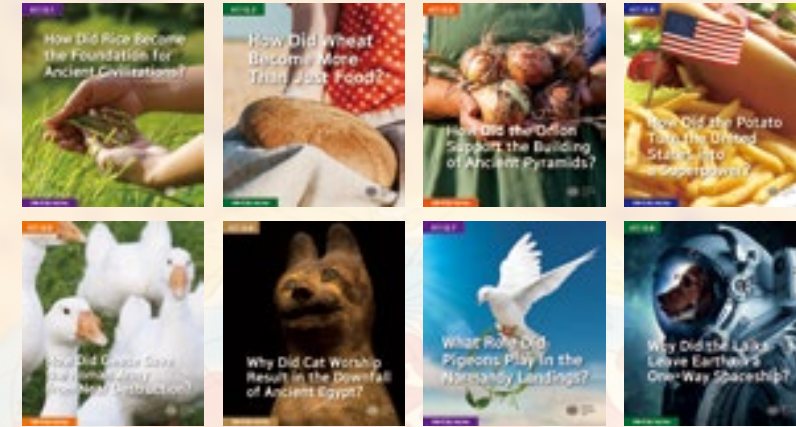
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