Grade 3 Science

Canterbury Public Schools

Subject	Science
Grade Level	Grade three
Module Title	Module 2 The Wide World of Frogs- Researching to Build Knowledge and TEach Others Module 4 Water Around the World- Gathering Evidence and Speaking to Others
Unit Overview	Module 2 Students investigate frogs from around the world, examining physical structures, behaviors, habitats, and adaptations that help them survive. Through research , reading, observation, and discussion, students learn how inherited traits and environmental adaptations help frogs survive in different habitats. They become frog experts. Investigate the diversity of frog species around the world Explore inherited and acquired traits Examine how traits help frogs survive in their environments Conduct scientific research using informational texts Gather evidence from multiple sources Communicate scientific findings through writing and presentations Develop and understanding of how environmental conditions influence organisms Module 4 Students investigate the importance of water around the world, exploring how access to water affects communities and how people work to solve water-related challenges. In this module, students investigate the importance of what to people and communities around the world while also exploring how living organisms survive in different environments. Through research, discussions, and evidence-based speaking activities, students learn how environmental conditions influence survival and how certain traits provide advantages in specific habitats. Students gather evidence from informational texts and communicate their understanding through presentations and collaborative discussions. Investigate the importance of water as a natural resource Examine how environmental conditions affect living things Explore how plants, animals, and people depend on water Analyze how environmental changes impact survival Use evidence to support claims and solutions Communicate scientific understanding through speaking and presentations activities Develop and awareness of environmental stewardship and conservation

Pacing (# of weeks)	Module 2 8 - 9 weeks Module 4 8 - 9 weeks
Standards	Module 2 LS1.A Structure and Function LS1.B Growth and Development LS4.C Adaptation 3-LS3-2 Use evidence to support the explanation that traits can be influenced by the environment LS.3.A Inheritance of traits- Many characteristics of organisms are inherited from their parents LS3.B Variation of traits- different organisms of the same species may have different traits, and environmental factors can influence characteristics and survival 3-LS4-3 3.LS4-4 make a claim about the merit of a solution to a problem cause when the environment changes and the types of plants and animals that live there may change LS4.D Biodiversity - populations live in a variety of habitats, and environmental changes can affect the organisms that survive in those habitats. People can take actions to reduce impacts on living thighs and their environments Module 4 NGSS 3-ESS2-1 3-Ess2-2 ESS2.C Water in Earth's Processes
Content/Conceptual Knowledge (know)	Module 2 Frogs live in a variety of habitats Frogs have physical and behavioral adaptations Organisms inherit traits that aid survival Environmental conditions affect living organisms/ survival Scientists conduct research to learn about organisms Frogs are amphibians with a variety of physical characteristics Traits are characteristics that organisms possess Some traits are inherited from parents Organisms of the same species may display variations Scientists use observations and evidence to explain patterns in nature Module 4 Water is essential for life Water resources vary by location Communities use water differently Human actions impact water availability and quality

	People develop solutions to water challenges in particular habitats Humans actions can positively or negatively impact environments Communities develop solutions to environmental challenges Evidence can be used to evaluate solutions to problems Water is essential to living things Different environments provide different conditions for survival Environmental changes can affect plants and animals Organisms possess traits that help them survive
Skills (be able to do)	Module 2 Observe and describe adaptations Compare frog species Conduct research Use evidence to explain survival adaptations Communicate scientific findings Observe and describe frog traits Distinguish between inherited traits and environmental influences Gather information Record evidence using scientific note catchers Present findings to an audience Module 4 Analyze informational texts and data Explain the role of water in communities Compare water access around the world Use evidence to support claims Communicate findings through presentations Analyze information from scientific texts Identify environmental challenges affecting living things Gather evidence from multiple sources Explain relationships between organisms and their environments Develop claims supported by evidence Evaluate possible solutions to environmental problems Present scientific information clearly to an audience Participate in evidence-based discussions
Essential Questions	Module 2 How do frogs survive in different environments? What adaptations help frogs meet their needs? How do scientists learn about animals? Why do different frog species look and behave differently? What makes frogs unique? How are traits passed from parents to offspring? Do scientists use evidence to explain traits and survival?

	Module 4 Why is water essential for life? How does access to water affect communities? How do people solve-water related challenges? What responsibilities do people have for protecting water resources? How do environmental conditions affect survival? What happens when environments change? How do organisms adapt to meet their needs? How can people help protect living things and their habitats? How can evidence help us evaluate solutions to environmental problems?
Enduring Understandings	Module 2 Organisms possess traits that increase survival Habitats influence adaptations Biodiversity exists within species groups Scientific investigation helps us understand the natural world Organisms inherit many traits from their parents Individuals within species can exhibit variations Module 4 Water is a limited and valuable resource Geography affects access to water Human decisions influence water quality and availability Communities can work together to address environmental challenges Water is a critical resource for life Organisms depend on specific environmental conditions for survival Environmental changes can affect populations of plants and animals Human actions influence environmental health Evidence -based solutions can help address environmental challenges
Vocabulary	Module 2 Adaptation, habitat, species, predator, prey, camouflage, environment, life cycle, amphibian, survival, trait, behavior, off spring, species, amphibian, survival, Module 4 Resource, conservation, water cycle, scarcity, access, community, environment, pollution, watershed, distribution, sustainability, environment, habitat, survival, adaptations, trait, population,change, species, resource, biodiversity, impact, exosystem, stewardship
Common Learning Experiences	Module 2 Frog species research Close reads Create scientific field guide

	Gallery walks featuring frog adaptations Adaptation investigations Habitat comparisons Scientific note taking Informational writing Expert group discussions Study photos and videos of frog species Compare frog traits using charts and graphic organizers Read scientific articles Conduct frog research projects Create frog species profiles Investigate camouflage and adaptations examples Participate in expert groups Module 4 Water investigations Map studies Analysis of global water issues Research projects Public speaking activities Evidence-based discussions Investigate water use in communities around the world Study environmental challenges related to water Read informational texts Analyze case studies involving environmental problems/change Gather evidence from multiple sources Create presentations advocating for conservation efforts Engage in research and speaking activities
Assessments	Module 2 Science notebooks Research notes Vocabulary activities Frog expert presentation Informational report Performance tasks Students become frog experts and present information /research about a selected frog species, explaining its traits, adaptations, habitat, and survival strategies using scientific evidence Module 4 Students analyze informational texts and identify evidence related to environmental challenges and solutions Construct and evidence-based claim regarding a solution to an environmental problem affecting living things

	Develop and deliver a presentation that explains an environmental challenge, evaluates a possible solution, and supports their reasoning with evidence gathered during research.
Resources	Module 1 and 2 Trade books from unit 1 Maps and globes National Geographic for Kids- amphibians Primary source photographs Graphic organizers Anchor texts Zoo and aquarium websites Habitat maps Scientific videos Adaptation photo collections Frog life cycles diagrams Module 4 Texts Anchor charts Research articles and case studies Visuals and photographs Maps and globes National Geographic for Kids Primary sources Graphic organizers