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| **INTERACTIVE SCIENCE PACING GUIDE** | | | | | | | |
| **Grade 2 Physical Science Chapter 1: Matter Dates: September 11-November** | | | | | | | |
| **Big Question** | **30 m block** | **60 m block** | **Lessons** | **I will know. . .** | **Vocabulary** | **Inquiry Activities** | **Performance Expectation** |
| What is matter?  Reading Skill:  Draw Conclusions  *Graphic organizer online*  **Assessments**  **Teachers Choice:**  Interactive Avidities 5pts  Planet Diaries entries 5pts  Explore it 5pts  Writing Responses 5pts  Graphic organizers 5pts  Lesson Quiz 6 pts  **Required/culminating assessments**  Chapter Lab investigate it! 10 or 20 pots  Performance Activity 10 pts  Chapter Assessment 10 pts  **STEM or Math Optional** | 2 | 1 | Chapter 1 Opener  The Science in Glassblowing Untamed Science Video |  |  | Try It!  What affects evaporation? | Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.  Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.  Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object.  Construct an argument with evidence that some changes caused by heating and cooling can be reversed and some cannot. |
| 4 | 2 | Lesson 1 What are some properties of matter?  p. 17-23 | *I will know that matter has many different properties.* | matter, property, thermometer | Explore It!  How can you classify matter? |
| 4 | 2 | Lesson 2 What are solids, liquids, and gases?  p. 25-29 | *I will know that matter can be a solid, a liquid, or a gas.* | solid, liquid, gas | Did You Know:  Thermometers My Planet Diary |
| 4 | 2 | Lesson 3 What are some ways matter can change?  p. 31-35 | *I will know that matter can change in many ways.* | physical change, mixture, evaporate | Explore It!  How can you change clay? |
| 4 | 2 | Lesson 4 How can water change?  p. 37-39 | *I will know that water can be solid, liquid, or gas.* | volume | Explore It!  How much water is in each cup? |
| 4 | 2 | Lesson 5 How can you combine materials?  p. 41-47 | *I will know that materials can be combined to make or build things.* | combine | Explore It!  How can you build a bridge? |
| 6 | 3 | Chapter Wrap-Up  Chapter Lab  Performance Assessment  Chapter Assessment |  |  | Investigate It!  How can properties change?  Apply It!  Which objects will float? |

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| **Grade 2 Life Science Chapter 2: Plants and Animals Dates: November 6-February 16** | | | | | | | |
| **Big Question** | **30 m block** | **60 m block** | **Lessons** | **I will know. . .** | **Vocabulary** | **Inquiry Activities** | **Performance Expectation** |
| How do plants, animals, and people live in their habitat?  Reading Skill:  Compare and Contrast  *Graphic organizer online*  **Assessments**  **Teachers Choice:**  Interactive Avidities 5pts  Planet Diaries entries 5pts  Explore it 5pts  Writing Responses 5pts  Graphic organizers 5pts  Lesson Quiz 6 pts  **Required/culminating assessments**  Chapter Lab investigate it! 10 or 20 pots  Performance Activity 10 pts  Chapter Assessment 10 pts  **STEM or Math Optional** | 2 | 1 | Chapter 1 Opener  Please Pass the Stems Untamed Science™ Video |  |  | Try It!  What do plants need to be healthy? | Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants.  Plan and conduct an investigation to determine if plants need sunlight and water to grow.  Make observations of plants and animals to compare the diversity of life in different habitats. |
| 4 | 2 | Lesson 1  What are the parts of plants?  p. 77-81 | *I will know the different parts of a seed.* | nutrients, roots, stem | Did You Know: Lithops My Planet Diary |
| 4 | 2 | Lesson 2  What are some kinds of animals?  p. 83-87 | *I will know how animal groups are alike and different.* | amphibian | Did You Know: Whales My Planet Diary |
| 4 | 2 | Lesson 3 What are some parts of animals?  p. 89-93 | *I will know what animals need. I will know how animals use body parts to meet their needs.* | camouflage | Explore It!  How do ears compare? |
| 4 | 2 | Lesson 4  Where do plants and animals live?  p. 95-99 | *I will know that plants and animals live in habitats that meet their needs.* | habitat | Explore It!  Where can plants live? |
| 4 | 2 | Lesson 5  How do living things get food?  p. 1010-103 | *I will know how plants and animals get food. I will know how a food chain works.* | food chain, prey, predator | Explore It!  What is the order of a food chain? |
| 6 | 3 | Chapter Wrap-Up  Chapter Lab  Performance Assessment  Chapter Assessment |  |  | Investigate It!  How does water affect plant growth?  How can an octopus use its arms? Apply It! |

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| **Grade 2 Earth Science Chapter 3: Earth’s Materials February 20-May 5 (wrap-up year with Science Handbook)** | | | | | | | |
| **Big Question** | **30 m block** | **60 m block** | **Lessons** | **I will know. . .** | **Vocabulary** | **Inquiry Activities** | **Performance Expectation** |
| Why is the sun important?  Reading Skill:  Compare and Contrast  *Graphic organizer online*  **Assessments**  **Teachers Choice:**  Interactive Avidities 5pts  Planet Diaries entries 5pts  Explore it 5pts  Writing Responses 5pts  Graphic organizers 5pts  Lesson Quiz 6 pts  **Required/culminating assessments**  Chapter Lab investigate it! 10 or 20 pots  Performance Activity 10 pts  Chapter Assessment 10 pts  **STEM or Math Optional** | 2 | 1 | Chapter 1 Opener  How Rare Is This Gold? Untamed Science™ Video |  |  | How much water and land are on Earth? Try It! | Use information from several sources to provide evidence that Earth events can occur quickly or slowly.  Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land.  Develop a model to represent the shapes and kinds of land and bodies of water in an area.  Obtain information to identify where water is found on Earth and that it can be solid or liquid. |
| 4 | 2 | Lesson 1  What are some kinds of land and water?  p. 133-137 | *I will know about the land and water on Earth.* | landform, glacier | Connections My Planet Diary |
| 4 | 2 | Lesson 2  What changes land?  p. 139-143 | *I will know some fast and slow ways Earth changes* | weathering, erosion | Explore It!  How does Earth's surface move during an earthquake?  Changing Land Virtual Lab |
| 4 | 2 | Lesson 3  What is a fossil?  p. 145-147 | *I will know what fossils are and how fossils form.* | fossil, extinct | Explore It!  What can a fossil show? |
| 8 | 4 | Chapter Wrap-Up  Chapter Lab  Performance Assessment  Chapter Assessment |  |  |  |
| *Use extra time to complete STEM lab* |