		Diocese of Wheeling-Charleston		
		CASE Unit Planner		
Name of Te	Name of Teacher: Holly Moore		Grade Level: 4th 0	Grade
Subject Area: Science		Cross Curricular Opportunities: Math, Reading and Writing		
	Place Value in the Wild ww.teacherspayteachers.com/Product/Place-Value-In-T	he-Wild-Place-Value-Project-Based-Learning-PBL-1984528)	Estimated Duratic (between 2-9 wee	
Overview of and submit	of Unit: Students engage in a Project-Based Learning expe t a detailed field guide focused on one habitat and the ani	erience by applying to be an expedition scout for Wildlife International. The application p mals that live there. As a final step, students must be interviewed for the positions.	rocess requires the	m to complete
Forms of Text (non fiction/fiction): non fiction		Teaching Strategies: Whole group collaborative groups, cooperative learning/protocols, science research		
environme	ent around them.	ion, animals and the habitat in which they live. Student discuss how God created animals and the habitat in which they live. Student discuss how God created animals are solved as well as participate in an interview for the job for wh		
Standard Number	Standards	Description of Activity	Resources	Date of Completion
S.4.GS.9; S.4.GS.10	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction; use a model to describe that animals recieve different types of information through their senses, process the information in their brains and respond to the information in different ways	Project-Based Learning experience: Place Value in the Wild	Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL- 1984528)	
S.4.GS.9; S.4.GS.10	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction; use a model to describe that animals recieve different types of information through their senses, process the information in their brains and respond to the information in different ways	Project Launch: Introduce the project to students by reading the job posting released by Wildlife International searching for expedition scouts. Outline the requirements for applying for the job and set expectations for students. Distribute file folders to students to use as their workfolder for this project. Provide each of them with a job posting as well as the steps that must be met in order to complete this project. Allow students some time to decorate their folder, glue the steps for the project on the inside cover the folder and organize any other information needed to launch the project. Note: Provide students with the guidelines needed to complete each step of the project prior to beginning that step. The job posting, steps and guidelines to completing the field guide can be found by purchasing the Place Value in the Wild project from Teachers Pay Teachers.	Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL- 1984528)	
S.4.GS.9; S.4.GS.10	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction; use a model to describe that animals recieve different	Project Exploration (Steps 1 & 2): My Favorite Habitat - Using think-pair-share, allow students some time to brainstorm different habitats. Record their responses. Distribute the "My Favorite Habitat" worksheets and review with students the habitats listed adding any habitats that they have named that are not included on the worksheet. Students will then break into pairs and will be assigned to research one of the habitat and record findings on a post board. Each pair will present the habitats they researched to the class. Each student will then decide which of these habitats they would be interested in researching for their field guide. They will use the "My Favorite Habitat" worksheet to record the habitat that they are choosing for their field guide along with an explanation of why they chose this habitat. The worksheet will be submitted to the teacher for approval for their research. Steps 1 & 2 guidelines and "My Favorite Habitat" worksheet can be found by purchasing the Place Value in the Wild project from Teachers Pay Teachers.	Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value-' Project-Based- Learning-PBL-	

S.4.GS.9;	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction; use a model to describe that animals recieve different types of information through their senses, process the information in their brains and respond to the information in different ways	reptile or bony fish. Students and teacher will then work as a whole group comparing	Nancy Larson Science Curriculum, 4th Grade	Days 5-6
S.4.GS.9;	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction; use a model to describe that animals recieve different types of information through their senses, process the information in their brains and respond to the information in different ways	animal is classified as a vertebrate or invertebrate using the information gathered in the project mini-lesson. Vertebrates are classified again as an amphiban, bird, mammal, bony fish or reptile. Once a list of 20 animals has been compiled and classified, students are to pick 8 animals that they would like to research. Animals chosen are either highlighted, circled or starred. The "Animals That Live Here" worksheet is submitted to	cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL-	Days 7-9
S.4.GS.9;	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction; use a model to describe that animals recieve different types of information through their senses, process the information in their brains and respond to the information in different ways	found in their field guide and how it will be organized. Have students use the information they have found thus far (8 animals that live in their habitat) to begin thinking about the layout of the guide. Explain that the illustration found on the coverpage of the guide will introduce the audience to the habitat and should include the	Project-Based-	Days 10-11
M.4.NBT.1, M.4.NBT.2, M.4.NBT.3,	recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right; read and write multi-digit numbers based on meanings of the digits in each place using >, =, < symbols to record the results of comparisions; use place blue understanding to round multi-digit whole numbers to any place; know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz; l, ml; hr, min, sec within a single sytem of measurement express measurements in a lardger unit in terms of a smaller unit, record measurement equivalents in a two column table.	Project Exploration (Step 7): Creature Size-Up - Students will begin researching each of the 8 animals by finding out, on average, how much the animals weighs. Students will use the "Creature Size-Up" worksheet to organize their work. Students must list the name of the animal along with the weight of the animal (using the correct unit of measure). The weight must be written in standard, expanded and word form. The	Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL- 1984528)	Days 12-15
M.4.NBT.1, M.4.NBT.2, M.4.NBT.3,	one place represents ten times what it represents in the place to its right; read and write multi-digit numbers based on meanings of the digits in each place using >, =, < symbols to record the results of comparisions; use place blue understanding to round multi-digit whole numbers to any place; know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz; l, ml; hr, min, sec within a single sytem of measurement express measurements in a lardger unit in terms of a smaller	units so that they are the same and easy to compare. Students will place the animals in order using their "Creature Size-Up" worksheet. They will work with a partner to help one another complete the task and to make sure that they both agree that animals are place in the correct order. Students will then use the "Different Shapes and Sizes" worksheet to record the animals from smallest to largest including the animal name, weight (along with unit of measure) and an illustration (created by the student). Step 8 guidelines and the "Different Shapes and Sizes" worksheet can be found by purchasing	Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL-	Days 16-18

S.4.GS.9; S.4.GS.10	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction; use a model to describe that animals recieve different types of information through their senses, process the information in their brains and respond to the information in different ways	Project Exploration (Step 9): Animal Profiles - Students begin creating a profile for each of the 8 animals by researching species, location, diet and interesting facts about the animal. Students will record their information on the "Animal Profile" templates. These	Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL- 1984528)	Days 19-28
S.4.GS.9; S.4.GS.10	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction; use a model to describe that animals recieve different types of information through their senses, process the information in their brains and respond to the information in different ways	Project Exploration (Step 10): Personal Profile - Students will use the "Personal Profile" template to create a profile about themselves. The profile will include interesting information about themselves including why they would make the ideal expedition scout. This will serve as the last page of the field guide. Step 10 guidelines and the "Personal Profile" template can be found by purchasing the Place Value in the Wild	Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL- 1984528)	Days 29-30
S.4.GS.9; S.4.GS.10	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction; use a model to describe that animals recieve different types of information through their senses, process the information in their brains and respond to the information in different ways	Project Closure (Step 11): Creating the Field Guide - Students will edit the profiles that will be included in the field guide. Once edited, students will organize the field guides	Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL- 1984528)	Day 31-32
S.4.GS.9; S.4.GS.10	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction; use a model to describe that animals recieve different types of information through their senses, process the information in their brains and respond to the information in different ways	Project Closure (Step 12): Interview - Students will be interviewed by the teacher (or	Adapted from Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL- 1984528)	Day 33
S.4.GS.9; S.4.GS.10	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction; use a model to describe that animals recieve different types of information through their senses, process the information in their brains and respond to the information in different ways	Project Closure: Who Got the Job? - The teacher will post the candidates who got the job as expedition scouts. Each students who recieves a passing grade on the overall project	Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL- 1984528)	Day 34
	ted Instruction Opportunities/Overview: During this pro	ject, students are to apply their knowledge of place value as well as measurement and me	asurement convers	ion to complete
1	icular Opportunities:			

Standard Number	Standards	Description of Activity	Resources	Date
M.4.NBT.1, M.4.NBT.2, M.4.NBT.3,	recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right; read and write multi-digit numbers based on meanings of the digits in each place using >, =, < symbols to record the results of comparisions; use place blue understanding to round multi-digit whole numbers to any place; know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz; l, ml; hr, min, sec within a single sytem of measurement express measurements in a lardger unit in terms of a smaller unit, record measurement equivalents in a two column table.	Project Exploration (Step 7): Creature Size-Up - Students will begin researching each of the 8 animals by finding out, on average, how much the animals weighs. Students will use the "Creature Size-Up" worksheet to organize their work. Students must list the name of the animal along with the weight of the animal (using the correct unit of measure). The weight must be written in standard, expanded and word form. The weight must also be rounded and modeled using base ten blocks. "Creature Size-Up" worksheets must be submitted and reviewed with teacher before moving to step 8. Step 7 guidelines and the "Creature Size-Up" worksheet can be found by purchasing the Place Value in the Wild project from Teachers Pay Teachers	Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL- 1984528)	Days 12-15
M.4.NBT.1, M.4.NBT.2, M.4.NBT.3,	recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right; read and write multi-digit numbers based on meanings of the digits in each place using >, =, < symbols to record the results of comparisions; use place blue understanding to round multi-digit whole numbers to any place; know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz; l, ml; hr, min, sec within a single sytem of measurement express measurements in a lardger unit in terms of a smaller unit, record measurement equivalents in a two column table.	Project Exploration (Step 8): Different Shapes and Sizes - Once the teacher approves the "Creature Size-Up" research, students must then complete the "Different Shapes and Sizes" worksheet. This will be the first page of their field guide. Students are to compare the weight of their animals and put them in order from smallest to largest. <i>Note: If weight measurements are in different units of measure, students will have to convert all units so that they are the same and easy to compare.</i> Students will place the animals are place in the correct order. Students will work with a partner to help one another complete the task and to make sure that they both agree that animals are place in the correct order. Students will then use the "Different Shapes and Sizes" worksheet to record the animals from smallest to largest including the animal name, weight (along with unit of measure) and an illustration (created by the student). Step 8 guidelines and the "Different Shapes and Sizes" worksheet can be found by purchasing the Place Value in the Wild project from Teachers Pay Teachers.	Teachers Pay Teachers Website (https://www.tea cherspayteachers. com/Product/Pla ce-Value-In-The- Wild-Place-Value- Project-Based- Learning-PBL- 1984528)	Days 16-18
		Teaching Strategies Checklist	1	I
Writing				
Х	Paragraph			
Х	Essay (narratives, fairy tales, realistic fiction)			
Х	Summary			
Х	Research			
Х	Detailed answers (text supported)			
Х	Notes (note taking skills, outlines)			
X	Complete sentences			
Reading				
X	Informational text			-
	Lexile		1	1
	Complex literature			
X	Speaking			
X	Listening			
Х	Varied strategies and instructional methods			
Х	Critical thinking in whole class discussion			
X	Student led activities			

	common core standards (literature circles)
echno	ology
	Smartboard
	Computers
	iPads
	Powerpoint, Elmo etc.
iffere	entiated Instruction
	Used multiple resources
	Domain Vocabulary
	Cross-Curricular
	Collaborative engagement (meaningful feedback)
	Higher level learning and teaching
issess	sment
	Project based
	Writing prompt
	Portfolio
	Observation
	Quiz
	Technology based
	Test
	Student created test
,	Presentation
	Journal
	Think, pair, share
	Summary
	Oral questioning
	Analogy
	Powerpoint, or movie maker
uther	nticity
	Various activities
	Inquiry, research and evidence
	Evidence of time management and planning
	Problem solving strategies
umma	ary of Unit after Completion: