Our Lady of the Lake Roman Catholic School
Yearly Course Outline
Science
Second Grade
2023–2024

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Course Description

The second-grade science curriculum includes the study of plants and animals, matter, computer science, and Earth's resources. Students will make observations and predictions, as well as form and test hypotheses to solve problems. They will use scientific inquiry and the design process to perform fun and meaningful investigations.

Instructional Materials

[*Interactive Science*, Grade 2 (Pearson)
Project Lead the Way (PLTW) Launch Curriculum, Grade 2

Methods of Assessment and Distribution

All grades are weighted equally and posted regularly. Please check PowerSchool for postings (www.ollpowerschool.org).

Grading Scale

A: 100-94
B: 93-86
C: 85-78
D: 77-70
U: 69 and below

Tentative Course Calendar

***** Dates and course content are subject to change at discretion of teacher or administration. *****

Week	Standards	Objectives (The learner will . . .)	Instructional Materials	Assessments
1st Quarter				
Week 1 ***Aug. 14-18*** 8/18 Summer reading due				
Week 2 ***Aug. 21-25***				
Week 3 ***Aug. 28-01***	2-LS2-1 2-LS2-2 2-LS4-1 2-PS1-1 2-PS1-2 K-2-ETS1 LS2.A	classify the different parts of plants. observe how animal groups are alike and different. make models of animal parts and will investigate how animals use body parts to meet their needs. students will provide evidence that plant and animals live in habitats that meet their needs. obtain information about how a food chain works.	PLTW Materials Science: Form and Function *Interactive Science*, Chapter 2 - Plants and Animals	PLTW Launch Log Activities 1-3 Test Observing Nature Distributing Pollen and Seeds
Week 4 ***Sept. 04-08*** 9/4 No School	2-LS2-1 2-LS2-2 2-LS4-1 2-PS1-1 2-PS1-2 K-2-ETS1 LS2.A	classify the different parts of plants. observe how animal groups are alike and different. make models of animal parts and will investigate how animals use body parts to meet their needs. students will provide evidence that plant and animals live in habitats that meet their needs. obtain information about how a food chain works.	PLTW Materials Science: Form and Function *Interactive Science*, Chapter 2 - Plants and Animals	PLTW Form and Function Test
Week 5 ***Sept. 11-15***	2-LS2-1 2-LS2-2 2-LS4-1 2-PS1-1 2-PS1-2 K-2-ETS1	classify the different parts of plants. observe how animal groups are alike and different.	PLTW Living Things: Diversity of Life *Interactive Science*, Chapter	PLTW Living Things Activities 1-3 Test

	LS2.A 2-LS2-1 2-LS4-1 K-2-ETS1	make models of animal parts and will investigate how animals use body parts to meet their needs. students will provide evidence that plant and animals live in habitats that meet their needs. obtain information about how a food chain works.	2 - Plants and Animals	Observing Plants and Animals in Habitats
Week 6 ***Sept. 18-22***	2-LS2-1 2-LS2-2 2-LS4-1 2-PS1-1 2-PS1-2 K-2-ETS1 LS2.A 2-LS2-1 2-LS4-1 K-2-ETS1	use scientific reasoning to ask questions, make observations, and investigate ideas to make sense of phenomena and solve problems describe the diversity or difference of living things on Earth. collaborate effectively on a diverse and multidisciplinary team. communicate effectively for specific purposes and settings. practice ethical behavior in all settings	PLTW Living Things: Diversity of Life *Interactive Science*, Chapter 2 - Plants and Animals	Habitat Research Project Test
Week 7 ***Sept. 25-29*** Spirit Week 9/29 Fun Run Kickoff				
Week 8 ***Oct. 02-06***				
Week 9 ***Oct. 09-13*** 10/13 ½ day (Fun Run)	ETS1.A ETS1.B ETS1.C K-2-ETS1	ask questions and try to determine the answers. conduct investigations in which they use science skills effectively. will use tools and materials safely. construct an argument for why investigations should be repeated.	PLTW Grids and Games	PLTW Launch Log Activities 1 and 2 Test

		communicate solutions for recording and showing data. work cooperatively and collaboratively with peers, teachers, and others using technology. use technology resources (e.g. puzzles, logical thinking programs) to solve age-appropriate problems. use writing tools, digital cameras, and drawing tools to illustrate thoughts, ideas, and stories in a step by step manner. create developmentally appropriate multimedia products with support from teachers, family members, or student partners. construct a set of statements to be acted out to accomplish a simple task. use standard input and output devices to successfully operate computers and related technologies.		
2nd Quarter				
Week 10 ***Oct. 16-20***	ETS1.A ETS1.B ETS1.C K-2-ETS1	ask questions and try to determine the answers. conduct investigations in which they use science skills effectively. will use tools and materials safely. construct an argument for why investigations should be repeated. communicate solutions for recording and showing data.	PLTW Grids and Games	PLTW Launch Log Activity 3 and Project Test

		work cooperatively and collaboratively with peers, teachers, and others using technology. use technology resources (e.g. puzzles, logical thinking programs) to solve age-appropriate problems. use writing tools, digital cameras, and drawing tools to illustrate thoughts, ideas, and stories in a step by step manner. create developmentally appropriate multimedia products with support from teachers, family members, or student partners. construct a set of statements to be acted out to accomplish a simple task. use standard input and output devices to successfully operate computers and related technologies.		
Week 11 ***Oct. 23-27*** 10/27 Fun Run Reward Day	ETS1.A ETS1.B ETS1.C K-2-ETS1	ask questions and try to determine the answers. conduct investigations in which they use science skills effectively. will use tools and materials safely. construct an argument for why investigations should be repeated. communicate solutions for recording and showing data. work cooperatively and collaboratively with peers,	PLTW Grids and Games	PLTW Launch Log Game Maker and Problem Test

		teachers, and others using technology. use technology resources (e.g. puzzles, logical thinking programs) to solve age-appropriate problems. use writing tools, digital cameras, and drawing tools to illustrate thoughts, ideas, and stories in a step by step manner. create developmentally appropriate multimedia products with support from teachers, family members, or student partners. construct a set of statements to be acted out to accomplish a simple task. use standard input and output devices to successfully operate computers and related technologies.		
Week 12 ***Oct. 30-03***	ETS1.A ETS1.B ETS1.C K-2-ETS1	ask questions and try to determine the answers. conduct investigations in which they use science skills effectively. will use tools and materials safely. construct an argument for why investigations should be repeated. communicate solutions for recording and showing data. work cooperatively and collaboratively with peers, teachers, and others using technology.	PLTW Grids and Games	PLTW Grids and Games Unit Test

		use technology resources (e.g. puzzles, logical thinking programs) to solve age-appropriate problems. use writing tools, digital cameras, and drawing tools to illustrate thoughts, ideas, and stories in a step by step manner. create developmentally appropriate multimedia products with support from teachers, family members, or student partners. construct a set of statements to be acted out to accomplish a simple task. use standard input and output devices to successfully operate computers and related technologies.		
Week 13 ***Nov. 06-10*** 11/6 No School (Formation Day) 11/7 Virtual (Senior Day) 11/10 Virtual (OLL Festival)				
Week 14 ***Nov. 13-17*** 11/14-16 Fall Theatre Production				
Thanksgiving Holidays ***Nov. 21-25***				
Week 15 ***Nov. 27-30***				
Week 16 ***Dec. 04-08***				
Week 17 ***Dec. 11-15***				
Week 18 ***Dec. 18-20*** 12/20 ½ day				
Christmas Holidays ***Dec. 21-05***				
3rd Quarter				

Week 19 ***Jan. 08-12***				
Week 20 ***Jan. 15-19*** 1/15 No School				
Week 21 ***Jan. 22-26***				
Week 22 ***Jan. 29-02*** Catholic Schools Week, 2/2 Pep Rally				
Week 23 ***Feb. 05-09*** 2/9 ½ day (Grandparents Day)				
Mardi Gras Holidays **Feb. 12-16**				
Week 24 ***Feb. 19-23***	2-PS1-1 2-PS1-2 2-PS1-3 2-PS1-4 PS1.A PS1.B K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3 ETS1.A ETS1.B ETS1.C	carry out investigations to observe the properties of matter. analyze the properties of solids, liquids, and gases. investigate ways that matter can be changed. observe and classify water in its solid, liquid, and gaseous states and compare volume and temperature. observe that materials have properties and provide evidence that materials can be combined to form different things. construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot. analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs	PLTW Materials Science: Properties of Matter *Interactive Science*, Chapter 1 - Matter	

Week 25 ***Feb. 26-01*** 2/26 – Monthly School Mass (2nd) 2/29 – "Goin' Buggy"	2-PS1-1 2-PS1-2 2-PS1-3 2-PS1-4 PS1.A PS1.B K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3 ETS1.A ETS1.B ETS1.C	carry out investigations to observe the properties of matter. analyze the properties of solids, liquids, and gases. investigate ways that matter can be changed. observe and classify water in its solid, liquid, and gaseous states and compare volume and temperature. observe that materials have properties and provide evidence that materials can be combined to form different things. construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot. analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs	PLTW Materials Science: Properties of Matter *Interactive Science*, Chapter 1 - Matter	
Week 26 ***Mar. 04-08***	2-PS1-1 2-PS1-2 2-PS1-3 2-PS1-4 PS1.A PS1.B K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3 ETS1.A ETS1.B ETS1.C	carry out investigations to observe the properties of matter. analyze the properties of solids, liquids, and gases. investigate ways that matter can be changed. observe and classify water in its solid, liquid, and gaseous states and compare volume and temperature. observe that materials have properties and provide evidence that materials can be	PLTW Materials Science: Properties of Matter *Interactive Science*, Chapter 1 - Matter	

		combined to form different things. construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot. analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs		
Week 27 ***March 11-15***	2-PS1-1 2-PS1-2 2-PS1-3 2-PS1-4 PS1.A PS1.B K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3 ETS1.A ETS1.B ETS1.C	carry out investigations to observe the properties of matter. analyze the properties of solids, liquids, and gases. investigate ways that matter can be changed. observe and classify water in its solid, liquid, and gaseous states and compare volume and temperature. observe that materials have properties and provide evidence that materials can be combined to form different things. construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot. analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs	PLTW Materials Science: Properties of Matter *Interactive Science*, Chapter 1 - Matter	
4th Quarter				
Week 28				

March 18-22				
Week 29 ***March 25-29*** 3/29 No School (Good Friday)				
Easter Holidays ***March 29-05***				
Week 30 ***April 08-12***	K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3 2-ESS1-1 2-ESS2-1 2-ESS2-2 2-ESS2-3 PS1.A:	compare and contrast landforms and bodies of water. investigate how changes on Earth can occur quickly or slowly. make a model of fossils to help explain how fossils provide evidence of change over time.	PLTW The Changing Earth *Interactive Science*, Chapter 3 - Earth's Materials	PLTW Launch Log Activities 1 and 2 Test Maps and Water
Week 31 ***April 15-19***	K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3 2-ESS1-1 2-ESS2-1 2-ESS2-2 2-ESS2-3 PS1.A:	compare and contrast landforms and bodies of water. investigate how changes on Earth can occur quickly or slowly. make a model of fossils to help explain how fossils provide evidence of change over time.	PLTW The Changing Earth *Interactive Science*, Chapter 3 - Earth's Materials	PLTW Launch Log Activities 3 and 4 Test Changing Earth's Surface and Erosion
Week 32 ***April 22-26***	K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3 2-ESS1-1 2-ESS2-1 2-ESS2-2 2-ESS2-3 PS1.A:	compare and contrast landforms and bodies of water. investigate how changes on Earth can occur quickly or slowly. make a model of fossils to help explain how fossils provide evidence of change over time.	PLTW The Changing Earth *Interactive Science*, Chapter 3 - Earth's Materials	STEM Recycled Paper Test
Week 33 ***April 29-03*** 4/30-2 Fall Theatre Production 4/30-2 5/3 Field Day	K-2-ETS1-1 K-2-ETS1-2 K-2-ETS1-3 2-ESS1-1 2-ESS2-1 2-ESS2-2 2-ESS2-3 PS1.A:	compare and contrast landforms and bodies of water. investigate how changes on Earth can occur quickly or slowly. make a model of fossils to help explain how fossils provide evidence of change over time.	PLTW The Changing Earth *Interactive Science*, Chapter 3 - Earth's Materials	Unit 3- The Changing Earth Chapter Test
Week 34 ***May 06-10***				

Week 35 ***May 13-17***				
Week 36 ***May 20-24*** 5/24 ½ day				