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

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Course Description

Students will complete modules in the areas of engineering, computer programming, environmental science, life science, and biomedical research. Students will learn about the forces involved in flight as well as Newton's Laws of Motion. They will explore, design, sketch, and build both simple and compound machines that demonstrate the use of forces. Students will identify factors that cause environmental changes, explore three factors that affect weather, contrast weather and climate, explore different types of weather hazards, and compare and contrast different animal life cycles. They will also test the forces of magnets, code a computer game, investigate fossils, and investigate learned/inherited genetic traits as well as dominant/recessive genes.

Instructional Materials

Project Lead the Way (PLTW) Launch Curriculum, Grade 3

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	Instructional	Assessments
		1st Quarter	Materials	
Week 1		Social Studies		
Aug. 14-18				
8/18 Summer				
reading due		Social Studios		
Aug 21-25		Social Studies		
Week 3		Social Studies		
Aug. 28-01				
Week 4		Social Studies		
Sept.04-08				
9/4 No School	2 DC2 1			
	3-PS2-1	- Explain what happens at each	- PLTW Launch	Activity I:
	5-P52-2 PS2 A	Step of the design process	for Stability and	launch logs (test)
	PS2 B	may ask when gathering	Motion Science of	launen logs (test)
Week 5	3-5-ETS1-1	information about a situation	Flight	
Sept. 11-151	3-5-ETS1-2	people want to change	0	
	3-5-ETS1-3	- Describe the motion and stability		
	ETS1.A	of an object with		
	ETS1.B	balanced/unbalanced forces		
	3-PS2-1	- Identify forces working on an	- PLTW Launch	Activity 2:
	3-P52-2	airplane in flight	for Stability and	completion and
	PS2 R		Motion Science of	launen logs (lest)
Week 6	3-5-ETS1-1		Flight	
Sept. 18-22	3-5-ETS1-2		8	
	3-5-ETS1-3			
	ETS1.A			
	ETS1.B			
	3-PS2-1	- Identify the differences between	- PLTW Launch	
	5-P52-2 PS2 Δ	Describe how the major parts	for Stability and	
	PS2 B	(fuselage wings and horizontal	Motion Science of	
	3-5-ETS1-1	stabilizers) of a glider affect the	Flight	
	3-5-ETS1-2	overall balance of an airplane	0	
Week 7	3-5-ETS1-3	during flight		
Sept. 25-29	ETS1.A	- Describe how Newton's Laws		
9/29 Fun Run	ETS1.B	apply to flight		
Kickoff		- Explain how the center of		
		gravity affects an aerospace		
		- Plan and conduct an		
		investigation to provide evidence		
		of the effects of		
		balanced/unbalanced forces on the		
		motion of an object		

		- Analyze the features and benefits		
		of different wing types		
		- Make observations and		
		measurements of an object's		
		motion to provide evidence that a		
		notion to provide evidence that a		
		future motion		
		Demonstrate heavy alider parts		
		- Demonstrate now grider parts		
	0.000.1	interact and affect flight		D 1
	3-PS2-1	- Follow a step by step approach	- PLTW Launch	Project and
	3-PS2-2	to solving a problem	Materials, Grade 3	Problem:
	PS2.A	- Identify specific constraints that	for Stability and	completion of
	PS2.B	engineers and designers must	Motion, Science of	building/testing
	3-5-ETS1-1	consider given a specific design	Flight	gliders; complete
	3-5-ETS1-2	problem		the Disaster Relief
	3-5-ETS1-3	- Brainstorm and evaluate existing		Effort problem
	ETS1.A	solutions to a design problem		using their gliders
	ETS1.B	- Generate multiple solutions to a		(test)
		design problem while considering		
		criterion and constraints		
Week 8		- Use the design matrix to		
Oct. 02-06		compare multiple possible		
		solutions to a design problem and		
		solutions to a develop		
		select one to develop		
		- Plan and perform fair tests in		
		which variables are controlled to		
		identify a product's strengths and		
		limitations		
		- Organize and maintain an		
		engineering notebook to document		
		work		
		- Share findings and conclusions		
		with an audience		
	3-PS2-1	-Pose questions that can be	- PLTW Launch	Activity 1:
	3-PS2-2	answered by using student's own	Materials, Grade 3	completion and
	3-PS2-3	observations, scientific	for Stability and	launch logs (test)
	3-PS2-4	knowledge, and testable scientific	Motion, Forces	
	PS2.A	investigations	and Interactions	
	PS2.B	-Express data in a variety of ways		
W L O	3-5-ETS1-1	by constructing illustrations,		
Week 9	3-5-ETS1-2	graphs, charts, tables, concept		
Oct. 09-13	3-5-ETS1-3	maps, and oral and written		
$10/13 \frac{1}{2} day$	ETS1.A	explanations as appropriate		
(Fun Kun)	ETS1.B	-Demonstrate how force is a push		
		or a pull		
		-Explain how the amount and		
		direction of force exerted on an		
		object determine how much the		
		object will move		
		-Observe and analyze motion and		
		position of objects over time		

		-Explain the effects of varying		
		amounts of force on the motion of		
		an object		
		-Give examples of how energy can		
		be used to move or lift objects		
	-	2nd Quarter	-	-
	3-PS2-1	-Explain the effects of varying	- PLTW Launch	Activity 2:
	3-PS2-2	amounts of force on the motion of	Materials, Grade 3	completion of
	3-PS2-3	an object	for Stability and	either an inclined
	3-PS2-4	-Give examples of how energy	Motion, Forces	plane, lever, or
	PS2.A	can be used to move or lift	and Interactions	pulley and launch
	PS2.B	objects		log questions
	3-5-ETS1-1	-Identify simple machines and the		pertaining to the
Week 10	3-5-ETS1-2	tasks they make possible		simple machine
Oct. 16-20	3-5-ETS1-3	- Plan and conduct an		(test)
	ETS1.A	investigation to provide evidence		
	ETS1.B	of the effects of balanced and		
		unbalanced forces on the motion		
		of an object		
		- Provide evidence that an object's		
		motion can be used to predict		
	2 DS2 1	A dr. questions to determine	DI TW Lourah	Droiaati
	3 - 1 - 3 - 3	- Ask questions to determine	- FLI W Launch Moterials Grade 3	completion of
	3-F 52-2 3 DS2 3	electric or magnetic interactions	for Stability and	magnet project
Week 11	3-PS2-4	between two objects not in	Motion Forces	and launch log
Oct.23-27	PS2 A	contact with each other	and Interactions	questions (test)
10/27 Fun Run	PS2.B	-Define a simple design problem	and interactions	questions (test)
Reward Day	3-5-ETS1-1	that can be solved by applying		
	3-5-ETS1-2	scientific ideas about magnets		
	3-5-ETS1-3	C C		
	ETS1.A			
	ETS1.B			
	3-PS2-1	-Define a simple design problem	- PLTW Launch	Problem:
	3-PS2-2	reflecting a need or a want that	Materials, Grade 3	Complete the
	3-PS2-3	includes specified criteria for	for Stability and	Animal Rescue
	3-PS2-4	success and constraints on	Motion, Forces	problem and
	PS2.A	materials, time, or cost.	and Interactions	answer the
Week 12	PS2.B	- Generate and compare multiple		questions in the
Oct. 30-03	3-5-ETS1-1	possible solutions to a problem		launch log (test)
	3-5-EISI-2	based on how well each is likely		
	3-5-EISI-3	to meet the criteria and		
	EISI.A ETSI D	Dian and community fair tests in		
	E131.B	- rian and carry out fair tests in		
		failure points are considered to		
		identify aspects of a model or		
		prototype that can be improved		
	3-LS1-1	-Compare and contrast different	- PLTW Launch	Activity 1 and 2.
Week 13	3-LS2-1	animal life cycles	Materials, Grade 3	completion and
Nov. 06-10	3-5-ETSI-1		, 010000	launch logs (test)

11/6 No School	3-5-ETSI-2	-Evaluate the effect of honeybees	for Life Cycles		
(Formation	LS1.B	on other organisms' life cycles	and Survival		
Day)	LS2 D	-Analyze the importance of bees			
11/7 Virtual	FTS1 A	and other pollinators to the			
(Senior Day)	ETS1 B	flowering plant life cycle			
(OLL Festival)	ETSI.D	Identify the needs of living things			
(OLL Pestival)	EISIC	-identify the needs of fiving things			
		and the specific needs of			
		noneybees			
	0.1.01.1	-Explain the roles of honeybees			
	3-LS1-1	-Compare and contrast different	- PLTW Launch	Activity 3 and	
	3-LS2-1	animal life cycles	Materials, Grade 3	Project:	
	3-5-ETSI-1	-Evaluate the effect of honeybees	for Life Cycles	Solitary and	
	3-5-ETSI-2	on other organisms' life cycles	and Survival	Group Living	
XX7 1 1 4	LS1.B	-Analyze the importance of bees		chart, Animal	
Week 14	LS2.D	and other pollinators to the		Simulation,	
Nov. 13-17	ETS1.A	flowering plant life cycle		Project Part 1.	
11/14-16 Fall	ETS1.B	-Identify the needs of living things		Mystery Pollen	
Production	ETS1.C	and the specific needs of		Simulation, and	
Troduction		honeybees		Project Part 3.	
		-Explain the roles of honeybees		Read and Reflect	
		-Identify that some animals live in		(test)	
		isolation and others live in groups			
		-Evaluate the effects of living in			
		isolation versus living in a group			
Thanksgiving Holidays					
Nov. 20-24					
Week 15		Social Studies			
Nov. 27-1					
Week 16		Social Studies			
Dec. 04-08					
Week 17		Social Studies			
Dec. 11-15					
Week 18		Social Studies			
Dec. 18-20					
12/20 ½ day					
		Christmas Holidays			
		Dec. 21-05			
		3rd Quarter		.	
	3-LS3-1	- Characterize inherited traits vs.	- PLTW Launch	Activity 1:	
	3-LS3-2	learned behaviors	Materials, Grade 3	completion and	
	3-LS4-2	- Gather and analyze data on traits	for Variation of	launch log (test)	
	3-5-ETS1-1	- Perform an investigation in order	Traits		
Week 10	3-5-ETS1-2	to draw conclusions			
VV CEK 19	LS3.A	- Organize and maintain a			
Jun. 00-12	LS3.B	notebook to document work			
	LS4.B	- Organize and analyze data in the			
	ETS1.A	form of charts and graphs			
	ETS1.B	- Share findings and conclusions			
		with an audience			

Veck 20 Jan. 15-19 U15 No School3-LS3-2 -lednify inherited traits in organismsMaterials, Grade 3 for Variation of TraitsOrganisms Parts 1-3 and launch log (test)U15 No School1.S3.A -Explain how traits may be influenced by the environment LS3.B-Explain why some traits may provide advantages to species among the same species-PLTW Launch Materials, Grade 3 organismsActivity 3: completion of Parts 1-3 and launch log (test)Week 21 Jan. 22-263-LS3-1 - Analyze how traits may s -S-FTS1-1-Cather and analyze data on traits s -Recognize that offspring have throug Phument squares throug Phument squares s -S-FTS1-2-Cather and analyze data on traits throug Phument squares throug Phument squares s -S-FTS1-1-PLTW Launch Materials, Grade 3 for Variation of TraitsActivity 3: completion of Parts 1-3 and launch log (test)Jan. 22-263-LS3-1 - Gather and analyze data on traits - S-FTS1-1-Recognize that individuals have two copics of cach of their genes - PLTW Launch Materials, Grade 3 for Variation of TraitsProject: Completion of the Stimple Plant Inheritance project and launch log (uest)Jun. 29-023-LS3-1 - Describ chow a person's genes - S-FTS1-1 - S-FTS1-1-Recognize that individuals have - TraitsVeck 23 (Grandparenti Day)1.SA-8 - S-FTS1-1 - S-FTS1-1 - Describ chow a person's genes - S-FTS1-1 - Describ chow a person's genes - S-FTS1-1 - Descr		3-LS3-1	-Analyze how traits are passed	- PLTW Launch	Activity 2:
Week 20 Jan. 15:-193-5:ETS1-1 organismsfor Variation of TraitsParts 1-3 and Iaunch log (test)1/15 No School1.53.A I.S.A I.S.Ainfluenced by the environment -Explain why some traits may provide advantages to speciesFNI-W Australkslaunch log (test)1/15 No School1.53.A I.S.A-Recognize that there is a variationPI.TW Launch Materials, Grade 3 for Variation of TraitsActivity 3: completion of Parts 1-3 and Traits1/15 No School3-1.53.1 3-5.ETS1-1 3-1.53.4-Analyze how traits are passed down from parents to offspring 3-1.54.2 - Gather and analyze data on traits through Punnett squares LS3.3 I.S.3.4-PI.TW Launch Materials, Grade 3 for Variation of TraitsActivity 3: completion of Parts 1-3 and launch log (test)Week 21 Jan. 22-263-5.ETS1-1 3-5.ETS1-1 - StasA LS3.3 I.S.3.1-Cather and analyze data not raits through Punnett squares LS3.3 - Henotype of different traits ETS1.1.A - Recognize that there is a variation a st.SA-2 - Cocker and alone frame TraitsProject: Completion of the Simple Plant Inheritance project and launch log questions (test)Week 22 Jan. 29-20 Catholic Schools Wek, 22 Pep Raily3-5.ETS1-1 - Decsribe how a person's genes - Siter fungs and conclusions with an audience-PLTW Launch Materials, Grade 3 or traitsProject: Completion of the Simple Plant Inheritance project and launch log questions (test)Week 23 J.S.4-2 J.S.4-4-Predict phenotype of different traits - Siner findings and conclusions with an audience-PLTW Launch Materi		3-LS3-2	down from parents to offspring	Materials, Grade 3	completion of
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Jan. 15-19 1/15 No School3-5:ETS1-2 LS3.A influenced by the environment influenced by the environment	Week 20	3-5-ETS1-1	organisms	Traits	launch log (test)
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Use A: 1 ETS1.Aprovide advantages to species among the same species-PLTW Launch Materials, Grade 3 for Variation of parts 1-3 and launch log (test)Week 21 Jan. 22-263-LS3-2 3-LS3-2-Analyze how traits are passed of species-PLTW Launch Materials, Grade 3 for Variation of TraitsActivity 3: completion of parts 1-3 and launch log (test)Jan. 22-263-5-ETS1-1 1.53.A-Recognize that offspring have data on traits two copies of each of their genes 3-5-ETS1-1-PLTW Launch Materials, Grade 3 for Variation of TraitsActivity 3: completion of parts 1-3 and launch log (test)Jan. 22-26-Recognize that individuals have -151.B-PLTW Launch Materials, Grade 3 for Variation of TraitsProject: Completion of the Simple PlantJan. 29-02 Catholic Schools Week, 2/2 Pep Raily-Recognize that individuals have -151.B-PLTW Launch Materials, Grade 3 for Variation of TraitsProject: Completion of the simple Plant Inheritance project and launch log questions (test)Week 21 Jan. 29-02 Catholic Schools Week, 2/2 Pep Raily-Predict phenotype of offspring FTS1.A-Predict phenotype of offspring end genotype of the parents -0rganize and malyze data in the form of charts and graphs -Share findings and conclusions with an audience-PLTW Launch Materials, Grade 3 for Variation of TraitsWeek 23 Jack 243-5-ETS1-1 - Describe on a specific genotype, -Organize and malyze data in the form of charts and graphs -Share findings and conclusions with an audience-PLTW Launch Materials, Grade 3 for Envinnemati Chang		LS3.B	-Explain why some traits may		
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Week 23 Feb. 05-09 2/9 ½ day (Grandparents Day)3-LS4-4 3-5-ETS1-1 S-ETS1-2consistent with an initial prediction -Develop a basic understanding of habitats and organisms from long ago LS4.A ESS2.Dfor Environmental Changesand launch log (test)Use 4.1 (Grandparents Day)1.54.A LS4.C ESS2.Dago fossilized organism fossilized organism enter tideas as a team ETS1.A ETS1.Bfossilized organism through effective communicationif or Environmental Changesand launch log (test)Wardi Crace Helidayrs		3-LS4-3	or to test whether data are	Materials, Grade 3	Ago: completion
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Feb. 05-09 2/9 ½ day3-5-ETS1-2 LS2.C-Develop a basic understanding of habitats and organisms from long ago(Grandparents Day)LS4.AagoLS4.C- Identify the habitat of aLS4.Dfossilized organismESS2.D-Generate ideas as a teamETS1.A- Demonstrate collaborationETS1.Bthrough effective communication	Week 23	3-5-ETS1-1	prediction	Changes	(test)
2/9 ½ dayLS2.Chabitats and organisms from long(GrandparentsLS4.AagoDay)LS4.C- Identify the habitat of aLS4.Dfossilized organismESS2.D-Generate ideas as a teamETS1.A- Demonstrate collaborationETS1.Bthrough effective communication	Feb. 05-09	3-5-ETS1-2	-Develop a basic understanding of		
(Grandparents Day)LS4.AagoLS4.C- Identify the habitat of aLS4.Dfossilized organismESS2.D-Generate ideas as a teamETS1.A- Demonstrate collaborationETS1.Bthrough effective communication	2/9 ½ day	LS2.C	habitats and organisms from long		
LS4.C - Identify the habitat of a LS4.D fossilized organism ESS2.D -Generate ideas as a team ETS1.A - Demonstrate collaboration ETS1.B through effective communication Mardi Crees Holidayes	(Grandparents	LS4.A	ago		
LS4.D IOSSIIIZED Organism ESS2.D -Generate ideas as a team ETS1.A - Demonstrate collaboration ETS1.B through effective communication	Day)	LS4.C	- Identify the habitat of a		
ESS2.D -Generate ideas as a team ETS1.A - Demonstrate collaboration ETS1.B through effective communication		LS4.D	Iossilized organism		
ETS1.A - Demonstrate collaboration ETS1.B through effective communication Mardi Cress Helidays		ESS2.D	Demonstrate aplibility and in		
Mardi Cres Halidays		EISLA ETSLP	- Demonstrate collaboration		
		E131.D	Mond: Cross Holt Jarra		

		Feb.12-16		
Week 24		Social Studies		
Feb.19-23				
Wook 25		Social Studies		
Feb. 26-01		Social Studies		
Week 26		Social Studies		
Mar. 04-08				
Week 27		Social Studies		
March 11-				
15		44h Organtar		
Wook 28		4th Quarter		
March 18-		Social Studies		
22				
Week 29		Social Studies		
March 25-				
29				
3/25 – Holy				
Mass (3rd)				
3/29 No School				
(Good Friday)				
		Easter Holidays March 20 April 05		
Week 30		Social Studies		
April 8-12		Social Studies		
Week 31		Social Studies		
April 15-19				
Week 32 <i>April 22-26</i>	3-LS4-1 3-LS4-3 3-LS4-4 3-5-ETS1-1 3-5-ETS1-2 LS2.C LS4.A LS4.C LS4.D ESS2.D ETS1.A ETS1.B	 Explore eight major habitats found on Earth Compare and contrast the major habitats Identify the basic needs of organisms Explain how the basic needs are met within a specific habitat 	- PLTW Launch Materials, Grade 3 for Environmental Changes	Activity 1: Habitat Presentation (test)
Week 33 April 29-03 4/30-2 Fall Theatre Production 4/30-2 5/3 Field Day	3-LS4-1 3-LS4-3 3-LS4-4 3-5-ETS1-1 3-5-ETS1-2 LS2.C LS4.A LS4.C LS4.D ESS2.D ETS1.A	-Identify examples of environmental changes -Explain how the environmental change impacts an organism's habitat -Evaluate the effect of invasive species on a specific habitat	- PLTW Launch Materials, Grade 3 for Environmental Changes	Activity 3 and Project House Sparrow Game: Completion and launch log (test)

	ETS1.B			
	3-ESS2-1	-Analyze the effects of weather	- PLTW Launch	Activity 1 and 2:
	3-ESS2-2	-Understand how weather data is	Materials, Grade 3	completion and
	3-ESS3-1	collected and interpreted	for Weather:	Weekly Weather
	3-5-ETS1-1	-Identify the three aspects of	Factors and	Chart (test)
	3-5-ETS1-2	weather: precipitation, wind, and	Hazards	
	3-5-ETS1-3	temperature		
	ESS2.D	-Use weather tools to collect data		
Week 34	ESS3.B	-Measure and estimate liquid		
May 06-10	ETS1.A	volumes and masses of objects		
	ETS1.B	using standard units of grams,		
	ETS1.C	kilograms, and liters		
		-Compare and contrast weather		
		and climate		
		-Chart daily weather data		
		-Describe the five climate zones		
		-Identify trends in climate data		
	3-ESS2-1	-Analyze data to look for patterns	- PLTW Launch	Activity 3
	3-ESS2-2	or to test whether data are	Materials, Grade 3	Weather Hazards:
	3-ESS3-1	consistent with an initial	for Weather:	completion and
	3-5-ETS1-1	prediction	Factors and	launch log (test)
XX 1 25	3-5-ETS1-2	-Describe weather-related hazards	Hazards	
Week 35	3-5-ETS1-3	-Explain the effects of weather-		
May 13-17	ESS2.D	related hazards to humans,		
	ESS3.B	structures, and/or land		
	ETS1.A	-Use weather tools to collect data		
	ETS1.B	-Chart daily weather data		
	ETS1.C	-Identify trends in weather data		
	3-5-ETS1-1	- Identify parts of a computational	- PLTW Launch	Activity 2:
	3-5-ETS1-2	solution that can be abstracted and	Materials, Grade 3	Rosie's Path
	3-5-ETS1-3	modularized so that they can be	for Programming	completion and
	ETS1.A	reused multiple times with	Patterns	Activity 3:
	ETS1.B	different data	-Scratch website	Let's Dance
		- Identify ways that teamwork and		program in
		collaboration can support problem		Scratch (test)
		solving and innovation		
		- Decompose a problem and using		If there's time,
Week 26		a predefined set of commands,		have students
Week So		write an algorithm that will solve		begin Project:
5/24 16 day		the problem		Digital
5/24 /2 day		- Use functions to modularized		Animations
		repetitive tasks, break a program		creation in Scratch
		down into smaller pieces, and to		(test)
		make the program more efficient		
		- Use variables appropriately as		
		part of a computational solution to		
		store and manipulate values that		
		may change a program as it runs		
		- Use a conditional statement in a		
		program as a true/false test to		
		make the program follow a		

specified sequence of steps	
depending on the state of the	
condition	
- Demonstrate persistence in the	
cycle of testing, finding, and	
fixing problems in computer	
programs	
- Create computer programs using	
step-by-step instructions that a	
computer can understand	
- Implement a loop when	
appropriate to make a program	
repeat a section of code until an	
ending condition is reached	