

# Science Curriculum

## Paris Crestwood

2022-2023 School Year

The science units for each grade level have been paired with the Next Generation Science Standards. The elementary grade levels have integrated many of the science units into the reading blocks to create a cross-curricular learning experience. The junior high teachers use the Amplify Science curriculum; this will be updated on a quarterly basis this year.

# Kindergarten Science Scope and Sequence

## Curriculum: Mystery Science

CHAPTER	TITLE	NEXT GENERATION SCIENCE STANDARDS
Aug./Sept.	How do animals make their home in the forest?	K-ESS2-2
	Why would you want an old log in your backyard?	K-ESS3-1, K-ESS3-3
	What's the biggest excavator?	K-PS2-1, K-PS2-2
	How can you knock down the most bowling pins?	K-PS2-1
	How can we protect a mountain town from falling rocks?	K-PS2-1, K-PS2-2, K-2-ETS1-2, K-2-ETS1-3
	Famous Inventor: Garrett Morgan	K-2-ETS1-1
Oct.	How can you get ready for a big storm?	K-ESS3-2
	How do you know what to wear for the weather?	K-ESS2-1
	Storm Cloud in a Jar Experiment	K-ESS2-1, K-ESS3-2, K-2-ETS1-1, K-2-ETS1-2
	Parachute STEM	K-PS2-2, K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3
Nov.	Research Projects	Writing Standards
	Seasonal Mystery	
	Why do woodpeckers peck wood?	K-LS1-1
	How can you find animals in the woods?	K-ESS3-1
Dec.	How do animals make their home in the forest?	K-ESS2-2
	Where do animals live?	K-ESS3-1
Jan.	Why do woodpeckers peck wood?	K-LS1-1
	Rocket STEM	K-PS2-1, K-PS2-2, K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3
Feb.	Research Project	Writing Standards
	Peeps STEM	K-PS2-1, K-PS2-2, K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3
Mar.	Seasonal Mystery	
	How could you walk barefoot across hot pavement without burning your feet?	K-PS3-1, K-PS3-2
April	How could you warm up a frozen playground?	K-PS3-1, K-PS3-2, K-2-ETS1-2, K-2-ETS1-3
	What would the weather be like on your birthday?	K-ESS2-1
	How can you get ready for a big storm?	K-ESS3-2
May	Have you ever watched a storm?	K-ESS2-1
	Famous Inventor: Wright Brothers	Reading Standards

## Kindergarten Science Scope and Sequence Curriculum: Superkids Super Smart Topics

UNIT	UNIT TITLE	TOPIC	COMMON CORE STANDARDS
1	How Food Grows	How fruits and vegetables grow	K-ESS3-1
2	The Odd Ostrich	How ostriches are different from most birds	K-LS1-1, K-ESS3-1
7	Loving Care	Caring for baby lions and human babies	K-LS1-1
8	Information About Insects	Features and abilities of insects	K-LS1-1, K-ESS-1
10	At the Pond	Changes at a pond through the seasons	K-ESS2-1
11	Studying the Stars	Constellations and astronomy	
17	Our 5 Senses	The five senses and how we use them	K-LS1-1
19	Taking Care of Pets	How to care for pets	K-LS1-1
20	Get Ready for the Weather!	How to prepare for different kinds of weather	K-ESS3-2
22	Dinosaurs	How we learn about dinosaurs from bones and fossils	K-LS-1-1, K-ESS2-2

## Kindergarten Informational Text Library Science Connection

UNIT	UNIT TITLE	TOPIC	COMMON CORE STANDARDS
14	Cats	Cat behaviors, their likes, and dislikes	K-LS1-1
16	The Best Bed	Places where different animals sleep	K-LS1-1, K-ESS3-3
17	In the Grass	Animal life in the grass	K-ESS-3-3
20	Eggs, Eggs, Eggs!	Animals and insects that lay eggs	K-LS1-1, K-ESS3-1
21	Skeletons	Inside look at skeletons of various animals	K-LS1-1
23-24	Boxes	Lots of different uses for boxes	K-PS2-2

# 1<sup>st</sup> Grade Science Scope and Sequence

## Superkids Super Smart Topics

UNIT	UNIT TITLE	TOPIC	COMMON CORE STANDARDS
Review	A Rainforest Adventure	Animals and plants of the rainforest	1-LS1-1
1	Big Cat, Little Cat	Similarities and differences between housecats and wild cats	1-LS1-1
3	Taking Care of Zoo Animals	How zookeepers care for animals	1-LS1-1
5	The Planets of Our Solar System	A tour of the solar system	1-ESS1-1, 1-ESS1-2
7	That's Fast	Comparing the fastest speeds of different animals	1-LS1-1
10	Storms Ahead!	The science of different kinds of storms	1-ESS1-2
12	How Your Body Works	The systems of the human body	1-LS1-2
14	Wild About Birds	Different kinds of birds and birdwatching	1-LS1-3

## 2<sup>nd</sup> Grade Science Scope and Sequence Curriculum: Superkids Super Magazines

UNIT	SUPER TITLE	CURRICULUM AREA AND TOPIC	NEXT GENERATION SCIENCE STANDARDS
1	"Crazy New Critters"	Unusual marine life, marine biology	2-LS4-1
3	"Saving the Cranes"	Scientists raising cranes	2-LS4-1
	"Leaf Me Alone"	Animals with unusual ways of protecting themselves	2-LS4-1
5	"Do Not Disturb"	What hamsters do at night	2-LS4-1
	"Everyone Snoozes"	Sleeping habits of different animals	2-LS4-1
	"Sleep Tight"	What happens to your body when you sleep	2-LS4-1
	"Sky Watch"	Natural phenomena seen in the sky	
	"The Mighty Light"	Thomas Edison and the light bulb	
7	"3, 2, 1...Liftoff!"	An experiment sending stuffed bears into space	
	"Fly, Butterflies!"	Migration of monarch butterflies	2-LS4-1
	"You Can't Beat a Cheetah"	What makes a cheetah go fast	2-LS4-1
	"What's Faster?"	A quiz about how fast things go	2-ESS1-1
9	"Green Thumbs"	Growing and preparing food in a school garden	2-LS2-2
	"Eat a Rainbow"	Why some colorful foods are also nutritious	2-LS2-2
	"Animal Rainbow"	How and why some animals are brightly colored	2-LS4-1
11	"Deep Down"	Caves	
	"What's He Thinking?"	How dogs communicate	2-LS4-1
	"Busy Bones"	Your skeleton and what it does	2-LS4-1
13	"Water, Water, Everywhere"	Kinds of water on Earth	2-ESS2-2, 2-ESS2-3
	"The Never-Ending Story"	The water cycle	2-ESS2-2, 2-ESS2-3
	"No Water? No Problem!"	Camels	2-LS4-1
	"Famous Falls"	Niagara Falls	2-ESS2-2, 2-ESS2-3
15	"Friends in the Wild"	Jane Goodall and her study of chimps	2-LS4-1
	"Ewww! Germs!"	What germs are and how they get around	2-LS2-2
	"Survive in the Wild"	Tips on interacting with wild animals	2-LS4-1

# 3<sup>rd</sup> Grade Science Scope and Sequence

## Curriculum: HSP Illinois

TITLE	ANTICIPATED DAYS TO COMPLETE	NEXT GENERATION SCIENCE STANDARDS
Properties of Matter	14	3-5-ETS1-3
Energy	10	3-PS2-2
Electricity and Magnets	15	3-PS2-3, 3-PS2-4
Heat, Light, and Sound	16	3-5-ETS1-1
Forces and Motion	10	3-PS2-1, 3-PS2-2
Work and Machines	17	3-5-ETS1-3
Types of Living Things	10	3-LS1-1
Types of Plants	12	3-LS4-3
Types of Animals	10	
Where Living Things are Found	14	3-LS4-4
Living Things Depend on One Another	15	
Forces That Shape the Land	10	3-ESS2-2
The Water Cycle	14	

# 4<sup>th</sup> Grade Science Scope and Sequence

UNIT	TITLE	ANTICIPATED WEEKS TO COMPLETE	NEXT GENERATION SCIENCE STANDARDS
1	The Rock Cycle	3	4-ESS1-1
2	Earth's Systems and Changes to Earth's Surface	3	4-ESS2-1, 4-ESS3-1, 4-ESS3-2
3	Minerals, Soil, and Landforms	3	4-ESS2-2
4	Space	3	4-ESS1-1
5	Energy	3	4-PS3-1, 4-PS3-2, 4-PS3-3, 4-PS3-4
6	Waves	3	4-PS4-1, 4-PS4-2, 4-PS4-3
7	Electricity and Magnetism	3	4-PS3-2, 4-PS3-3, 4-PS3-4
8	Structure, Function, and Processes	3	4-LS1-1, 4-LS1-2
9	Life Cycles	4	4-LS1-1
10	Animal and Plant Adaptations	3	4-LS1-2
11	Famous Inventions	2	

## 5<sup>th</sup> Grade Science Scope and Sequence

UNIT	UNIT TITLE	ANTICIPATED WEEKS TO COMPLETE	NEXT GENERATION SCIENCE STANDARDS
1	Ecosystems	7	5-PS3-1, 5-LS1-1, 5-LS2-1
2	Matter	8	5-PS1-1, 5-PS1-2, 5-PS1-3, 5-PS1-4
3	Earth's Systems/Rocks and Minerals	8	5-ESS2-1, 5-ESS2-2, 5-ESS3-1
4	Renewable and Nonrenewable Resources	2	5-ESS2-1, 5-ESS2-2, 5-ESS3-1
5	Gravity and Space (Sun and Moon; not Planets)	8	5-ESS1-1, 5-ESS1-2
6	Life Science	3	