science on the go

REMOTE READY

PROFESSIONAL DEVELOPMENT • REMOTE-READY LESSONS • VIRTUAL FIELD TRIP

Science on the Go is a professional development program designed to help K–8 educators become more comfortable teaching science through **NGSS–aligned** lessons that are **interactive**, **inquiry-based**, **rigorous** and **accessible**. For more than 30 years, our experienced education staff has been working side-by-side with teachers and their students throughout Chicago.

with science on the go, you'll invest in:

Professional Development afterschool workshop to prepare for classroom implementation

EARN

Up to five professional development clock hours

Five remote-ready lessons that explore local science content through NGSS–aligned curricula with all materials provided

INCLUDING

One lesson taught virtually by a visiting museum educator that models best practices in science education and utilizes unique museum resources from our living and preserved collections

One Virtual Focused Field Trip to the Nature Museum

CONNECTING

Classroom learning to real-world experiences outside of school

CHICAGO ACADEMY OF SCIENCES | PEGGY NOTEBAERT NATURE MUSEUM

2430 N Cannon Drive, Chicago, IL 60614 | naturemuseum.org

remote science on the go timeline

QUARTER TIMELINE

1 **ONLINE REGISTRATION**

Register at naturemuseum.org/sog.

2 **PRE-PROGRAM CONTACT AND PLANNING**

Communicate with your visiting Museum educator, finalize your visit schedule, and share insights about your students.

3 **PROFESSIONAL DEVELOPMENT WORKSHOP**

Participate in an afterschool workshop with Nature Museum educators to go through each lesson of the curriculum as a learner, and prepare to teach in the classroom. Receive all student–facing and teacher curriculum materials.

> *"**I feel more confident** leading science lessons remotely now that I have experienced this professional development."*
>
> *2020 Remote Science on the Go teacher*

4 **FIVE NGSS–ALIGNED LESSONS**

Classroom teachers teach four NGSS–aligned lessons. Students learn about local science content through inquiry-based lessons and cooperative learning.

5 **MUSEUM EDUCATOR VIRTUAL VISIT**

One of the five lessons, taught by a visiting Museum educator, models best practices in science education and uses the Nature Museum's unique resources to unpack locally-relevant science concepts.

6 **VIRTUAL FOCUSED FIELD TRIP**

Visit the Nature Museum virtually with a Museum educator as your guide and make connections between learning in and out of the classroom.

7 **REFLECTION MEETING**

Reflect on Science on the Go and determine next steps for your science teaching practice.

> *"This curriculum **promotes a classroom community** and **creates home-to-school connections.**"*
>
> *2020 Remote Science on the Go teacher*

choose your curriculum

quarter/grade	K	1	2	3	4	5	6 – 8
Q1 10/6–11/20 *remote*	Nature Changes the Neighborhood						
	Plants in their Places						
				Conservation through Life Cycles			
				Urban Wildlife Watchers			
							Pollination Investigation
							Biodiversity Disrupted
Q2 12/1–1/29 *remote*	Nature Changes the Neighborhood						
	Plants in their Places						
				Conservation through Life Cycles			
				Urban Wildlife Watchers			
							Pollination Investigation
							Biodiversity Disrupted
Q3 2/9–3/26 *in-person**	Nature in the City						
	Animal Secrets						
		Habitat Seekers					
				Freshwater Flashback			
				Survivor: Winter Edition			
					Chicago's Nature Network		
							Interrupted Ecosystems
							Climate Change in Chicago
Q4 4/20–6/11 *in-person**	Nature in the City						
		Budding Sprouts					
				Freshwater Flashback			
				Insect Investigators			
					Chicago's Nature Network		
					Midwest Ecosystems		
							Climate Change in Chicago

QUARTER SCHEDULE

Q1 OCTOBER 6 – NOVEMBER 20, 2020
registration deadline ***September 24***

Q2 DECEMBER 1, 2019 – JANUARY 29, 2021
registration deadline ***November 19***

Q3 FEBRUARY 9 – MARCH 26, 2021
registration deadline ***January 7***

Q4 APRIL 20 – JUNE 11, 2021
registration deadline ***March 18***

MY IMPORTANT DATES

☐ _____
professional development workshop

☐ _____
museum educator virtual visit

☐ _____
virtual focused field trip

☐ _____
reflection meeting

**Q3 – Q4 curriculum choices and program format (i.e. remote or in-person) subject to change.*

curriculum descriptions

REMOTE

GRADES K 1 2

Nature Changes the Neighborhood K 1 2
DCI: ESS2.E
Explore how local plants and animals change the land and the flow of water. QUARTERS 1, 2

Plants in their Places K 1 2
DCI: LS2.A
Notice where plants grow and discover how their needs are met in these places.
QUARTERS 1, 2

GRADES 3 4 5

Conservation through Life Cycles 3 4 5
DCI: LS1.B
Explore how life cycles inform the conservation work Nature Museum scientists are doing.
QUARTERS 1, 2

Urban Wildlife Watchers 3 4 5
DCI: LS1.A
Explain how Chicago wildlife use their body structures to survive in an urban environment!
QUARTERS 1, 2

GRADES 6–8

Pollination Investigation 6–8
DCI: LS1.B
Investigate the many ways plants reproduce through their various relationships with animals.
QUARTERS 1, 2

Biodiversity Disrupted 6–8
DCI: LS2.C
Evaluate the impacts of human activities on Chicago's woodland biodiversity. QUARTERS 1, 2

IN-PERSON*

Nature in the City K
NGSS: K-ESS3-1, K-ESS2-2
Take a walk around the neighborhood — what plants and animals will you see? Use observations, discussions, and scientific drawings to explore ecosystems on the ground, in the trees, and near buildings.
QUARTERS 3, 4

Animal Secrets K 1
NGSS: K-LS1-1, 1-LS1-1
What can humans learn from how living things survive? Explore the unique ways Midwestern animals sense and thrive in the world around them. QUARTER 3

Habitat Seekers 1 2
NGSS: 1-LS1-2, 2-LS4-1
Explore the animals and habitats of the Midwest! Discover the different ways adult animals care fortheir young in wetland, prairie, and woodland habitats. QUARTER 3

Budding Sprouts 1 2
NGSS: 1-LS3-1, 2-LS2-2
Discover how plants spread without being planted and nurtured by humans! Use hands-on modeling to explore plant parts, pollination, and seed dispersal. QUARTER 4

Freshwater Flashback 3 4
NGSS: 3-LS3-2, 3-LS4-1, 4-ESS3-2
What lives in—or used to live in—Chicago's Great Lakes environment? Students will examine evidence of the ways local freshwater ecosystems changed over time. QUARTERS 3, 4

Survivor: Winter Edition 3 4
NGSS: 3-LS4-3, 4-LS1-1
Where do Chicago's animals go in the winter? Use hands-on activities and nonfiction text to develop a claim about animals' structural and behavioral adaptations. QUARTER 3

Chicago's Nature Network 4 5
NGSS: 4-LS1-1, 5-LS2-1
What is Chicago's apex predator? Explore the food web and connections between living and non-living things in our urban ecosystem.
QUARTERS 3, 4

Insect Investigators 3 4
NGSS: 3-LS1-1, 3-LS4-3, 4-LS1-1
Did you know that insects represent over 80% of the species alive on Earth? Explore the body structures, behaviors, and life cycles of Chicago's fascinating local insects.
QUARTER 4

Midwest Ecosystems 4 5
NGSS: 4-LS1-1, 5-LS2-1
What makes a wetland a wetland? Are certain animals only adapted to survive in a woodland? Can fire in a prairie be a good thing? Explore interactions within the three main ecosystems of the Midwest. QUARTER 4

Interrupted Ecosystems 6–8
NGSS: MS-LS2-1, MS-LS2-4
What happens to ecosystems when 12 million people move in? Students will analyze and interpret data, construct arguments, and explore the dynamic ecosystems of Illinois to discover how organisms respond to human disruptions. QUARTERS 3, 4

Climate Change in Chicago 6–8
NGSS: MS-ESS3-4, MS-LS2-2
How are local species affected by climate change? Students will construct an explanation about the cause of a changing climate and its effect on biodiversity in the Chicagoland area.
QUARTERS 3, 4

**Q3 – Q4 curriculum choices and program format (i.e. remote or in-person) subject to change.*

register online at ***naturemuseum.org/sog***