science on the go

fall 2019 — spring 2020

naturemuseum.org/sog
Science on the Go has given me a **better understanding** of what science lessons look like using the NGSS standards and reminded me how to make science **fun and interactive**.

*2019 Science on the Go teacher*

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**what is science on the go?**

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 **hands-on**, **inquiry-based**, and incorporate **cooperative learning**. For more than 25 years, our experienced education staff has been working side-by-side with teachers in classrooms throughout Chicago.

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**with science on the go, you’ll invest in:**

- **Professional Development after school workshop** to prepare for classroom implementation
- **Nine lessons** that explore local science content through NGSS–aligned curricula with all materials provided
- **Focused Field Trip** to connect classroom learning to real-world experiences

- **EARN**
  - Up to six and a half professional development clock hours
- **INCLUDING**
  - Three lessons—taught by a museum educator—that model best practices in science education and utilize unique museum resources from our living and preserved collections
- **INCLUDING**
  - A bus reimbursement to the Nature Museum
科学进行中

1. **在线注册**
   联系我们的科学进行中管理员，网址为naturemuseum.org/sog。

2. **联系会议**
   会面您的访问博物馆教育家，确定您的访问安排，并分享您学生的信息。

3. **专业发展研讨会**
   参加一个在自然博物馆举行的课外研讨会，以学习者的身份通过每个课程的教学，准备在课堂中教学。获得您的课程手册和为32名学生的所有材料。

4. **九个NGSS对齐的课程**
   教室教师教授六个NGSS对齐的课程。学生通过探究式课程和合作学习了解当地科学内容。

5. **三名博物馆教育家访问**
   其中的九堂课（第一、四和七堂）由访问博物馆教育家教授，展示科学教育的最佳实践，并使用我们活和保存藏品的独特博物馆资源。

6. **聚焦实地考察**
   获得前往自然博物馆的车费报销，将学习与课堂内外的联系。

7. **反思会议**
   反思科学进行中，并确定下一步的科学教学实践。

"课程非常有组织且容易跟随，学生们都很投入且被挑战。"

2019年科学进行中的老师
choose your curriculum

**quarter/grade**

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**curriculum descriptions**

**GRADES** K – 8

**Nature in the City**

_KSS5-1, KSS5-2_

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. **QUARTER 1.**

**Animal Secrets**

_KSS5-1, KSS5-1_

What can humans learn from how living things survive? Explore the unique ways Midwestern animals sense and thrive in the world around them. **QUARTERS 2, 3.**

**Budding Sprouts**

_KSS5-1, KSS5-2_

Discover how plants spread without being planted and nurtured by humans! Use handson modeling to explore plant parts, pollination, and seed dispersal. **QUARTERS 1, 3.**

**Habitat Seekers**

_KSS5-1, KSS5-1_

Explore the animals and habitats of the Midwest. Discover the different ways adult animals care for their young in wetland, prairie, and woodland habitats. **QUARTERS 2, 3, 4.**

**Insect Investigators**

_KSS5-1, KSS5-1, KSS5-1_

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 unique local insects. **QUARTERS 1, 4.**

**Survivor: Winter Edition**

_KSS5-1, KSS5-1, KSS5-1_

Where do Chicago’s animals go in the winter? Use handson activities and nonfiction text to develop a claim about animals’ structural and behavioral adaptations. **QUARTERS 2, 3.**

**Midwest Ecosystems**

_KSS5-1, KSS5-1, KSS5-1_

What is Chicago’s own predator? Explore the food web and connections between living and nonliving things in our urban ecosystem. **QUARTERS 2, 4.**

**Freshwater Flashback**

_KSS5-1, KSS5-1, KSS5-1, KSS5-1_

Explore a future career as a scientist! Students engage in NYS Science and Engineering Practicum through a variety of activities becoming junior chemists, biologists, and engineers. **QUARTER 3.**

**Cooling the Great Lakes Great Ecosystems**

_KSS5-7, KSS5-2_

What happens to ecosystems when 12 million people move in? Students will analyze and interpret data, construct arguments, and use the dynamic ecosystems of Illinois to discover how organisms respond to human disruptions. **QUARTERS 1, 2, 3, 4.**

**Climate Change in Chicago**

_KSS5-1, KSS5-1, KSS5-1, KSS5-1_

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.**

**Biology Basics**

_KSS5-3, KSS5-3, KSS5-3, KSS5-3_

Students are introduced to a variety of biology topics including cellular structure, reproduction, and population dynamics. Students will deepen their knowledge of biology through hands on experiences and peer collaboration. **QUARTER 2.**

**Register online at:** naturemuseum.org/sog

**Q2 SEPTEMBER 26 – NOVEMBER 8, 2019 registration deadline September 5**

**Q3 NOVEMBER 20, 2019 – JANUARY 24, 2020 registration deadline October 27**

**Q4 FEBRUARY 11 – MARCH 17, 2020 registration deadline January 9**

**Q5 APRIL 21 – JUNE 5, 2020 registration deadline March 29**
Please contact our Science on the Go coordinator at scienceonthego@naturemuseum.org or 773.755.5100 x5035 to register or ask questions.