



Cranbrook Institute of Science Science Starter Schedule November 2020

Key:

| |
|-------------------------|
| Earth and Space Science |
| Physical Science |
| Life Science |
| Engineering |

| Programs at 10 a.m. and 1 p.m. each day | | | | |
|--|--|--|---|---|
| | Tuesday | Wednesday | Thursday | Friday |
| Date | November 3 | November 4 | November 5 | November 6 |
| Audience | | 3-5 | 6-8 | K-2 |
| Topic | Election Day | Michigan Ecosystems | Chemical Reactions | Needs of Living Things |
| Description | <i>No programs</i> | Build a food web of living things and trace the movement of matter through an ecosystem. | Examine chemical reactions and model the atomic rearrangement of molecules involved. | We will look at the diverse ways animals find food, shelter, water, and air to survive. |
| Date | November 10 | November 11 | November 12 | November 13 |
| Audience | 6-8 | K-2 | 3-5 | 6-8 |
| Topic | Climate Change | What Causes Objects to Move? | Engineering: Ring Wing Gliders | Engineering: Ring Wing Gliders |
| Description | Students will discover how humans' daily actions impact the air we breathe and the water we drink. | Explore movement, examine forces, and investigate what causes objects to move. | Learn about the factors that affect flight while designing ring-wing gliders. | Learn about the factors that affect flight while designing ring-wing gliders. Iterate by testing and improving your initial design. |
| Audience | | | | K-8 |
| Topic | | | | Virtual Sky Tonight |
| Description | | | | Enjoy a live-narrated program about what's happening in the current night sky from constellations to comets, planets, and pulsars. |
| Date | November 17 | November 18 | November 19 | November 20 |
| Audience | 6-8 | 3-5 | K-2 | 3-5 |
| Topic | Weather and Climate | Electricity | Bodies Bounding | Animal Diversity |
| Description | Explore factors that affect the weather. See how air and water currents form, and how they relate to weather patterns. | We will examine static and current electricity with an emphasis on electron motion. | Sort animals by their shapes to show how they are related to each other; learn to copy other animal's bodies and movements. | Students will classify different animals into groups by looking at their external structures. |
| Audience | | | | K-8 |
| Topic | | | | Virtual Sky Tonight |
| Description | | | | Enjoy a live-narrated program about what's happening in the current night sky from constellations to comets, planets, and pulsars. |
| Date | November 24 | November 25 | November 26 | November 27 |
| Audience | K-2 | Thanksgiving | | K-8 |
| Topic | Sound | <i>No programs</i> | | Virtual Sky Tonight |
| Description | Investigate sound waves and see how vibrations produce sounds. | | | Enjoy a live-narrated program about what's happening in the current night sky from constellations to comets, planets, and pulsars. |



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|--|--|---|---|--|
| | <u>Tuesday</u> | <u>Wednesday</u> | <u>Thursday</u> | <u>Friday</u> |
| Date | December 1 | December 2 | December 3 | December 4 |
| Audience | K-2 | K-2 | 3-5 | 6-8 |
| Topic | Water, Water, Everywhere | Plants | Butterflies | Natural Selection |
| Description | Students will identify the parts of the water cycle. Demonstrations will explain the three states of matter that water can take. | Observe and describe the parts of a plant as we compare and contrast the needs of plants in different habitats. | Students will explain how individual differences in butterfly species can help them survive, find mates, and reproduce. | Model the process of natural selection in an elephant population that is being altered by human activity. |
| Audience | | | | K-8 |
| Topic | | | | Virtual Sky Tonight |
| Description | | | | Enjoy a live-narrated program about what's happening in the current night sky from constellations to comets, planets, and pulsars. |
| Date | December 8 | December 9 | December 10 | December 11 |
| Audience | 3-5 | K-2 | 3-5 | K-2 |
| Topic | How We Use Water | Solids, Liquids, and Gases | Matter and Its Properties | Growth & Development |
| Description | Review the water cycle and discover the difference between direct and indirect water usage in our daily lives. | What are the phases of matter? How do scientists classify matter into solids, liquids, and gases? | We will examine the three phases of matter and compare the density of different materials. | Discuss the stages of human growth and development and compare these to animals and plants. |
| Audience | | | | K-8 |
| Topic | | | | Virtual Sky Tonight |
| Description | | | | Enjoy a live-narrated program about what's happening in the current night sky from constellations to comets, planets, and pulsars. |
| Date | December 15 | December 16 | December 17 | December 18 |
| Audience | 6-8 | K-2 | 3-5 | 3-5 |
| Topic | Climate Change | All About Teeth | Energy Rocks | Growth & Development |
| Description | Students will discover how humans' daily actions impact the air we breathe and the water we drink. | Take a close look at the teeth of carnivores, herbivores and omnivores. Can you spot the differences? | Which fossil fuels are found in Michigan and how did they form? | Compare and contrast the stages of development for at least two different types of animals. |
| Audience | | | | K-8 |
| Topic | | | | Virtual Sky Tonight |
| Description | | | | Enjoy a live-narrated program about what's happening in the current night sky from constellations to comets, planets, and pulsars. |
| Date | December 22 | December 23 | December 24 | December 25 |
| | Winter Break <i>No programs</i> | | | |