Professional Learning – Coding Series



Land Acknowledgement

Anishinaabe Territory

Robinson-Huron Treaty

Located on the traditional lands of Atikameksheng Anishnawbek





schools.sciencenorth.ca/virtual-learning-packages

VIRTUAL LEARNING PACKAGES

VIRTUAL LEARNING

SMALL SCHOOL PACKAGE

MEDIUM SCHOOL PACKAGE

LARGE SCHOOL PACKAGE

SYNCHRONOUS E-WORKSHOPS Science North is pleased to offer Ontario schools virtual learning packages. We understand that experiential learning is of utmost importance for students and with new guidelines and field trip restrictions in place, why not go virtual?! Purchasing a virtual learning package for your school means that all students in the school will have the opportunity to participate in dynamic live shows, engaging synchronous workshops, and be able to drive their own experience by asking our Scientists anything!

Let Science North support your curriculum with our customizable packages.



JUST FOR TEACHERS

TEACHERS

TEACHERS WORKSHOPS

EDUCATOR RESOURCES

SCIENCE AT HOME

TEACHERS ACCESS PASS

SUBSCRIBE TO SCIENCE-**ATIONAL NEWS!**

TEACHERS WORKSHOPS



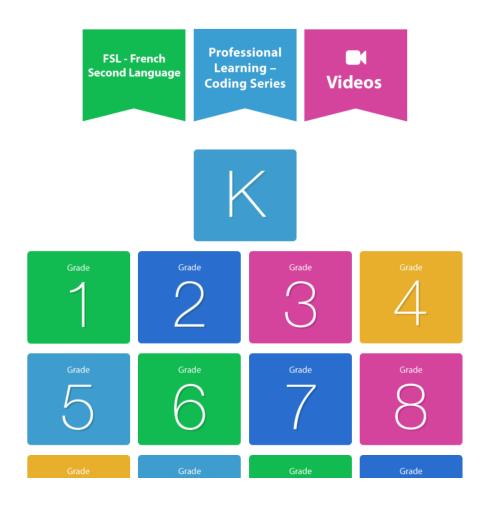
Science North has developed a series of dynamic teacher workshops that will bring the Ontario Science and Technology Curriculum to life. Each workshop is designed to give teachers the confidence and resources they need to investigate and explore the scientific concepts involved. These workshops involve teachers in fun, hands-on activities that are easily reproduced for the classroom at little or no

COVID UPDATE

schools.sciencenorth .ca/just-teachers



education.sciencenorth.ca



Workshop Goals

Science North is dedicated to getting **students excited** and **thinking about science**. We aim to provide teachers with **innovative**, **hands-on activities** and **creative learning tools** that make learning more meaningful and fun.

Motivate students:

- Connect to their interests.
- Highlight relevance of material.
- Use real-world examples.
- Choose challenging activities.
- Boost confidence.

Promote active learning:

- Use a group or individual activity.
- Challenge them to solve a problem.

Patterns in Nature – Gr 1/2

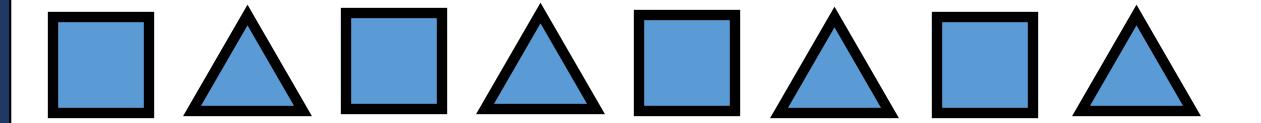
Part 1 - November 16, 2020

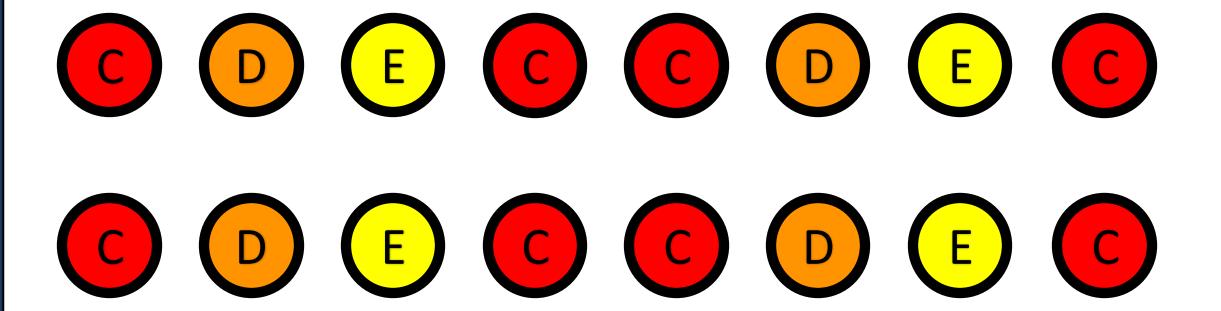
- Offline Activity
 - Lesson Plan
 - Slides
- Coding Activity
 - Lesson Plan
 - Conditional Statement Handout
 - Slides

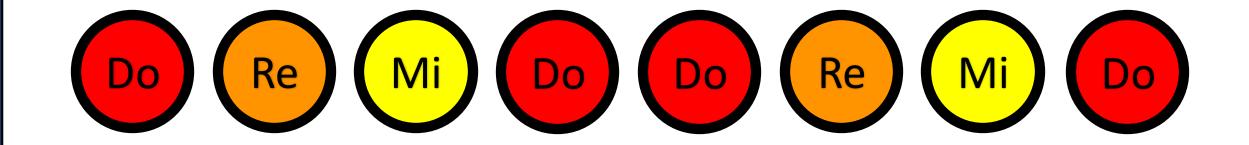
Part 2 - November 17, 2020

- Math Activity
 - Lesson Plan
 - Coding Handout
 - Ideas Handout
 - ScratchJr

Patterns are codes!



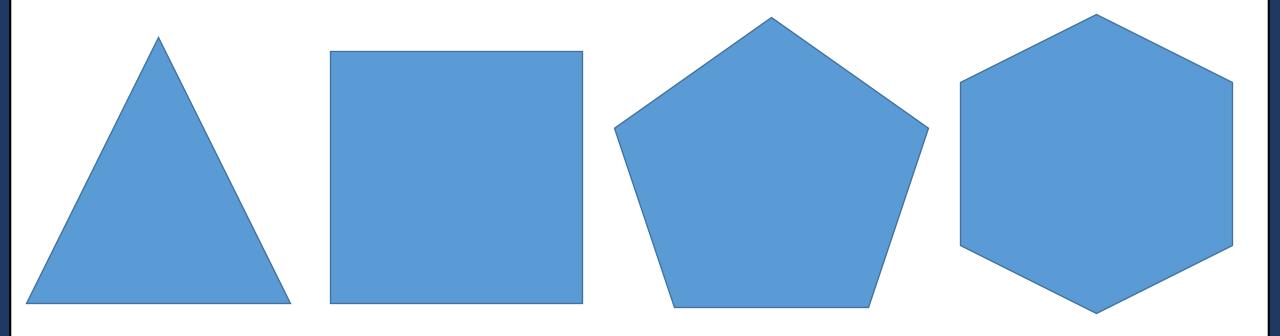






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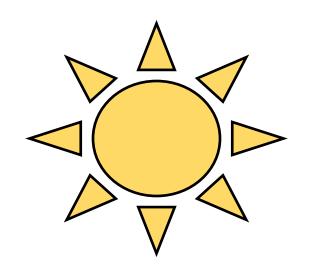
What comes next?





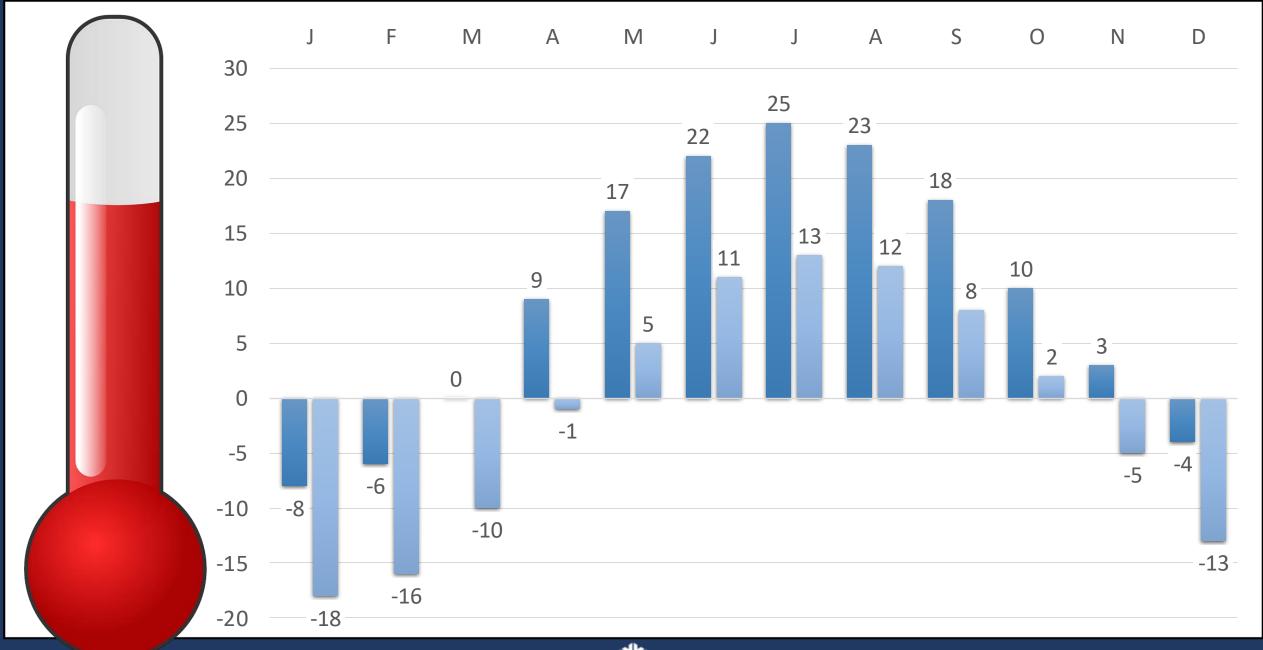


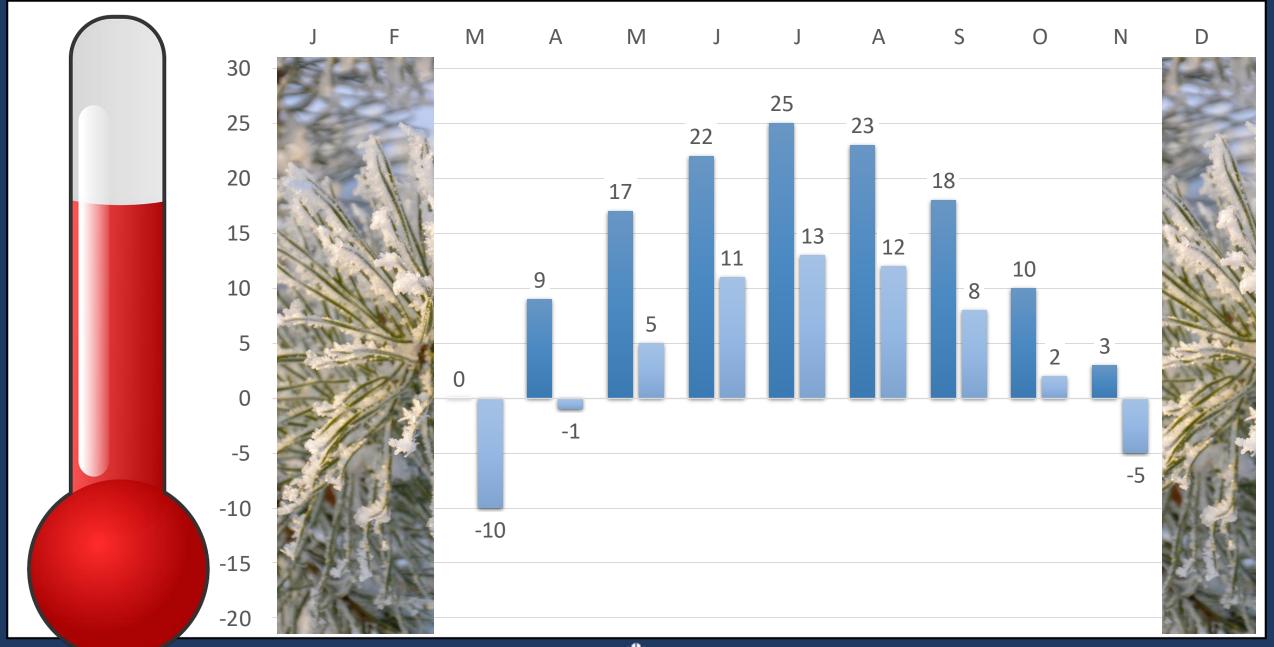


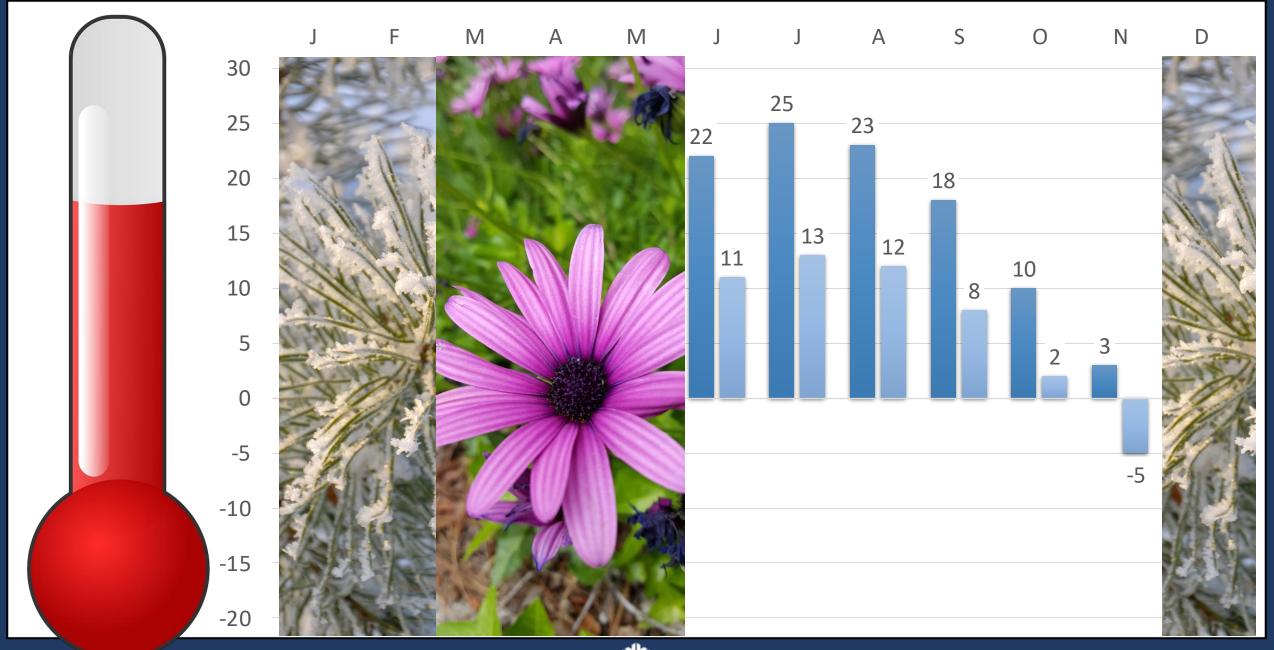


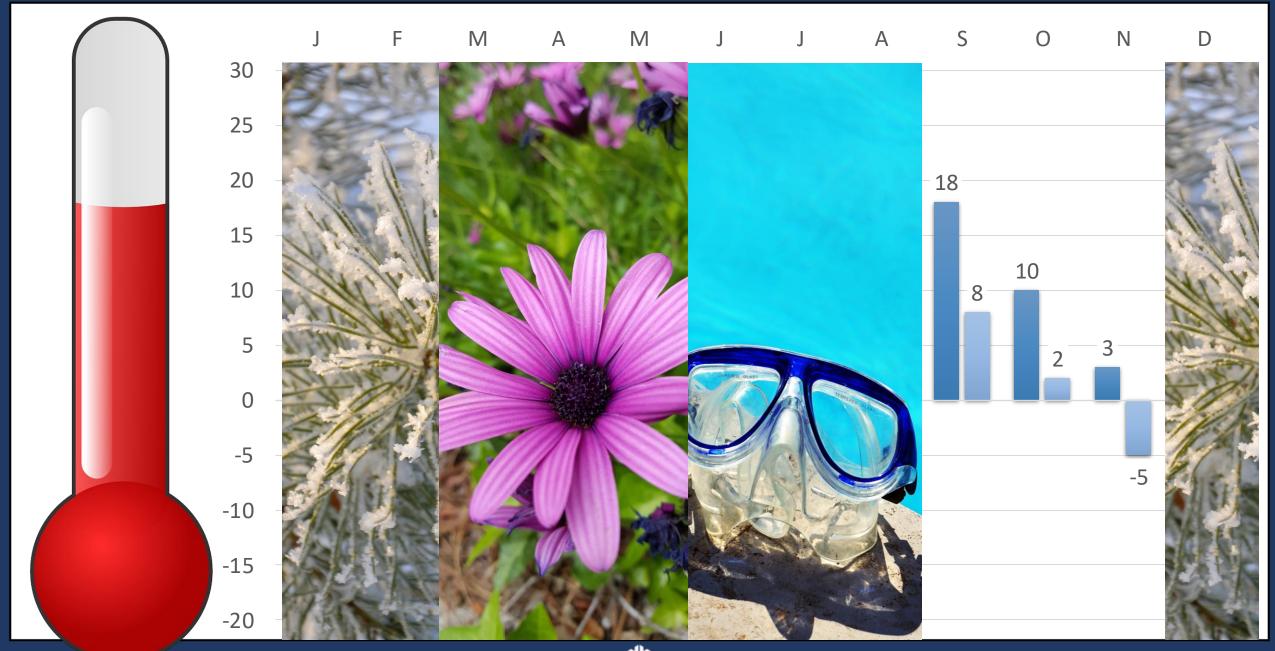




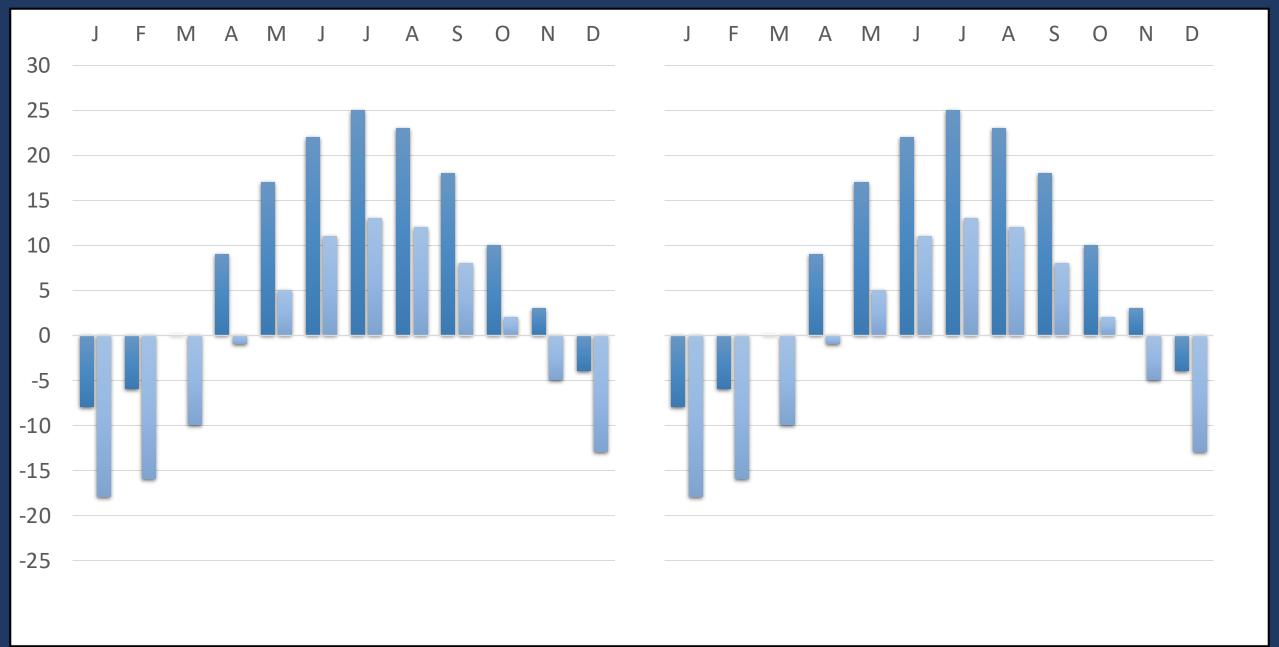




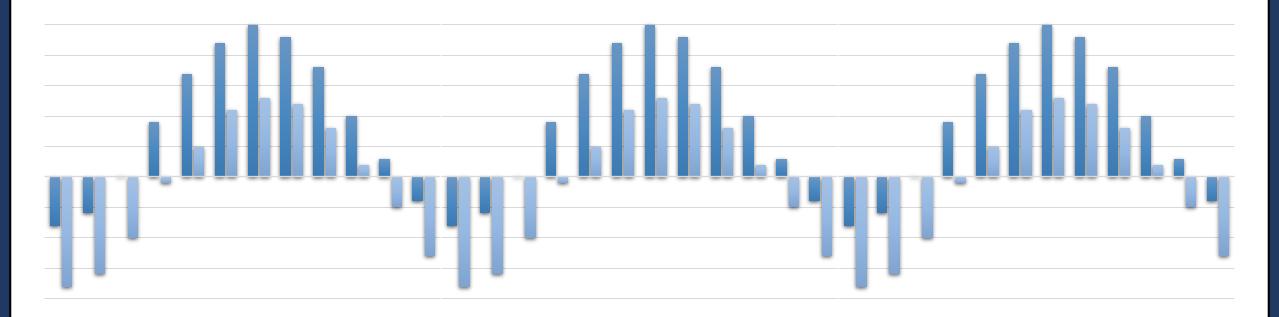




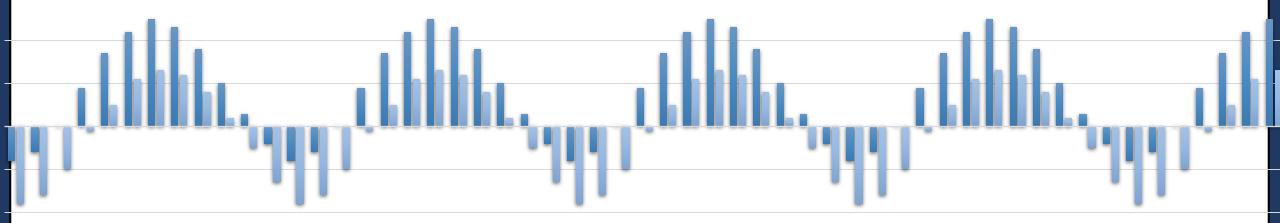




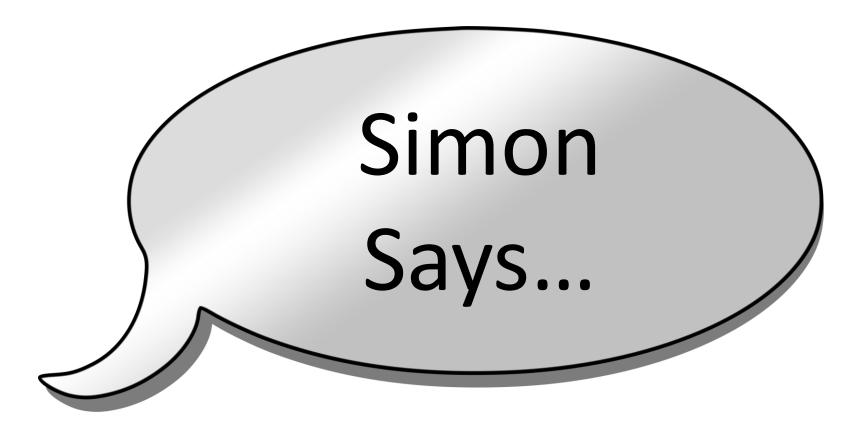
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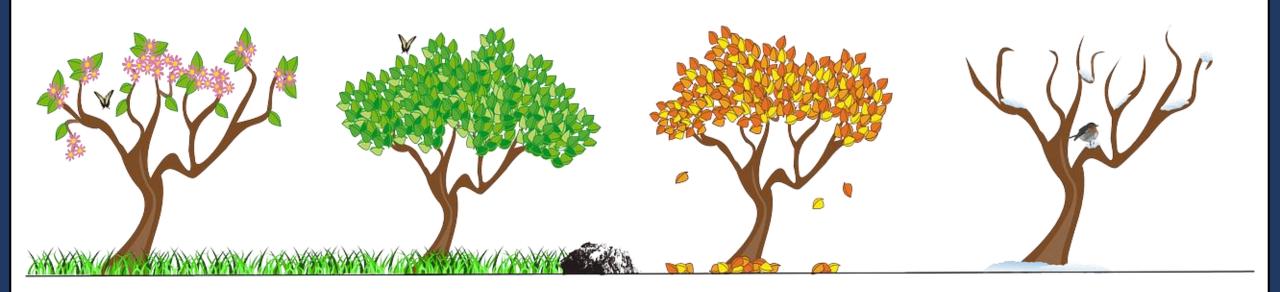
Offline Activity

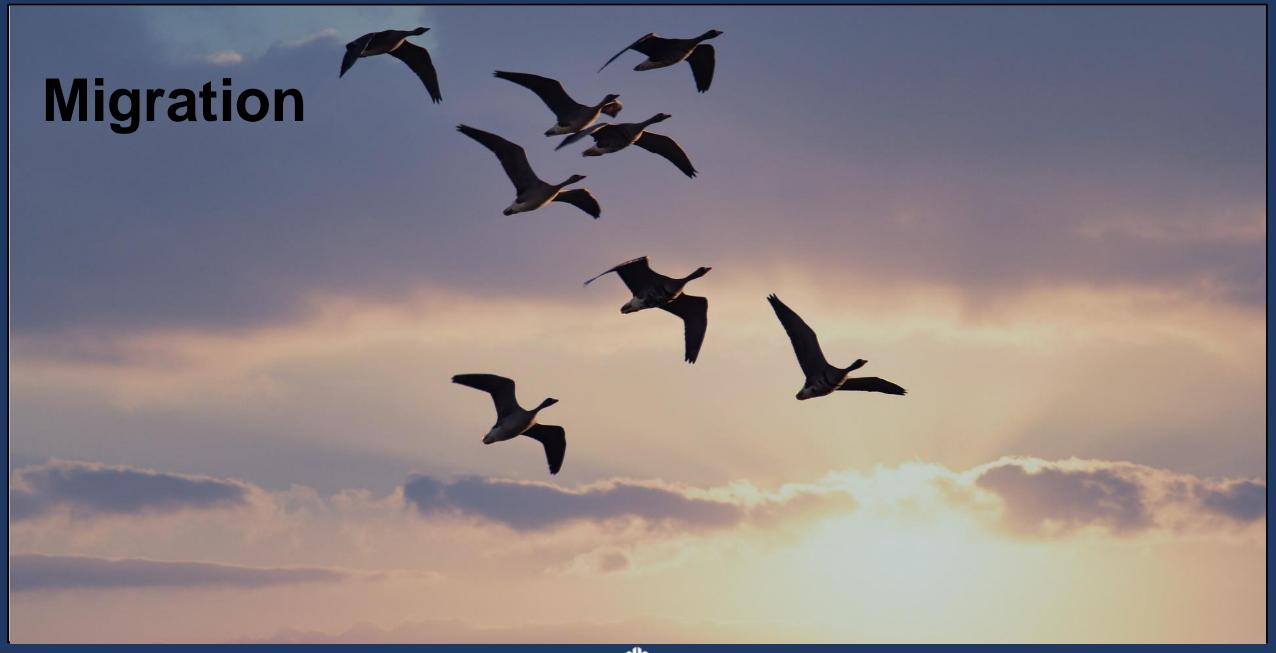


Patterns in Nature



Seasonal changes





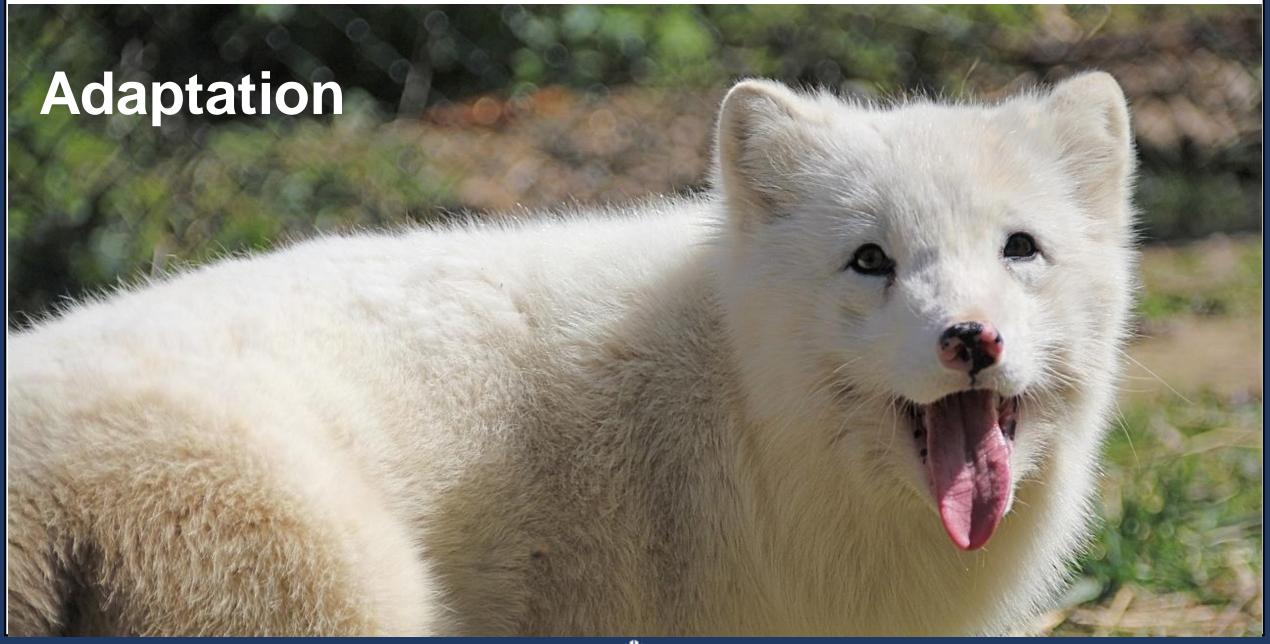






















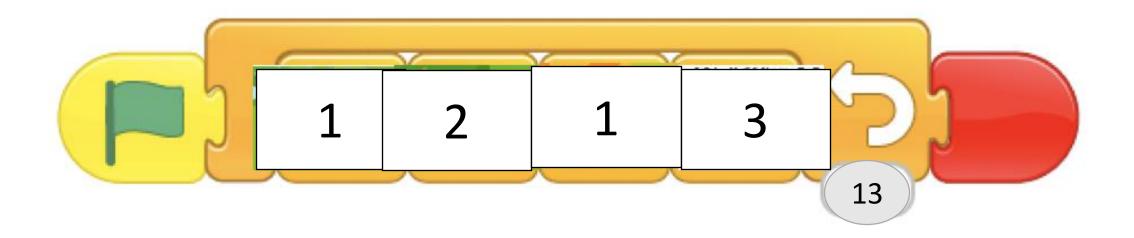
Coding Activity – Loops





3 1 2 1 3 1 2 1 3 1 2 1 3

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Conditional Statements

- At school:
 - If the fire alarm goes off, then
 - If I arrive to school late, then
 - If the bell rings, then
 - If we eat lunch, then

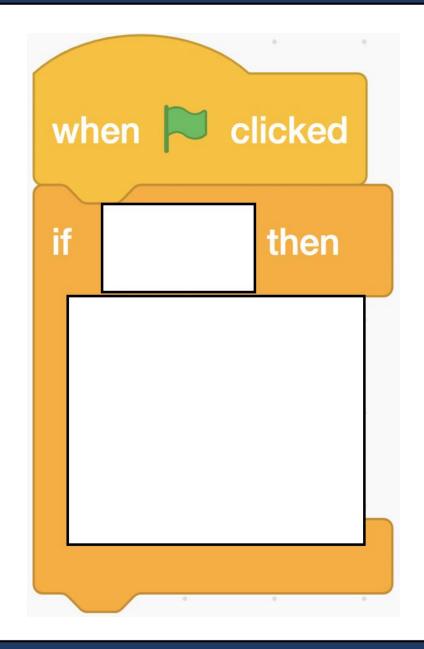
- In sports/games:
 - If the referee blows the whistle, then
 - If the timer runs out, then
 - If I match 2 cards, then
 - If I play an 8, then



Conditional Statements

- About gadgets:
 - If I press start on the microwave, then
 - If the battery says 1% on a device, then
 - If I press the space bar on a computer then,

- About weather:
 - If it is raining, then
 - If it is snowing, then



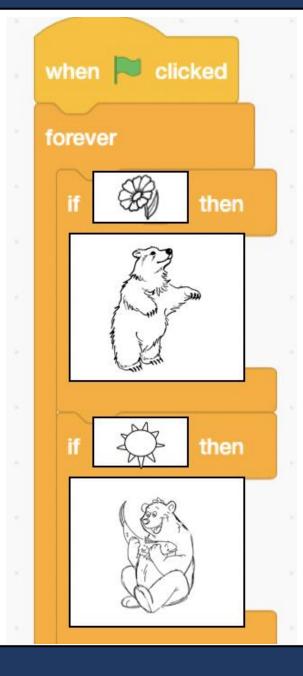
Coding Activity – Drawing Conditional Statements

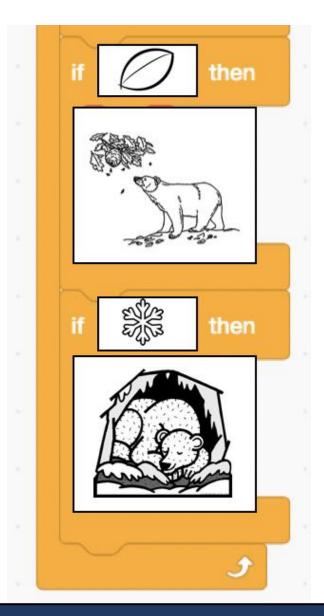












Math Activity - ScratchJr

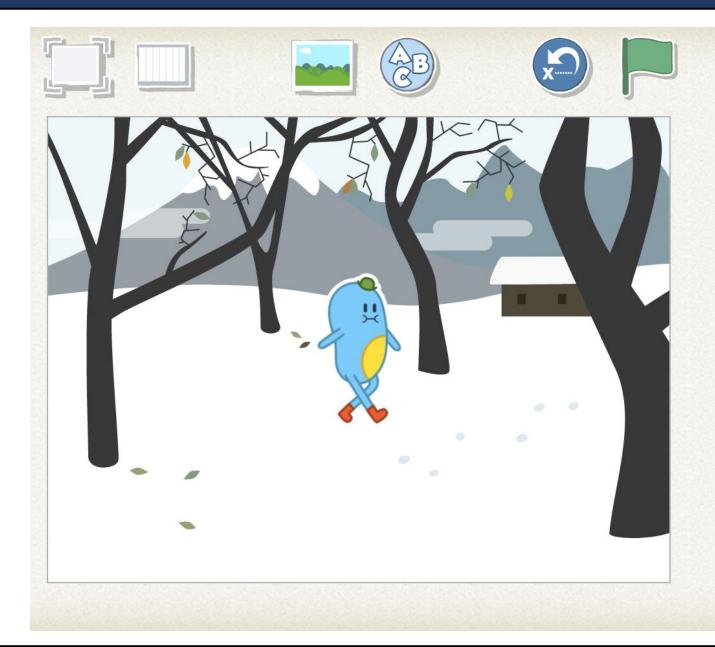


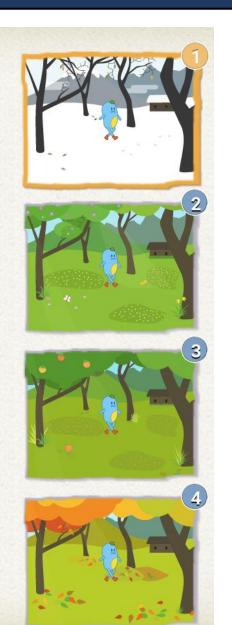
Tablets and Devices

https://www.scratchjr.org/

Desktops

https://jfo8000.github.io/ScratchJr-Desktop/





Code Blocks for each Page























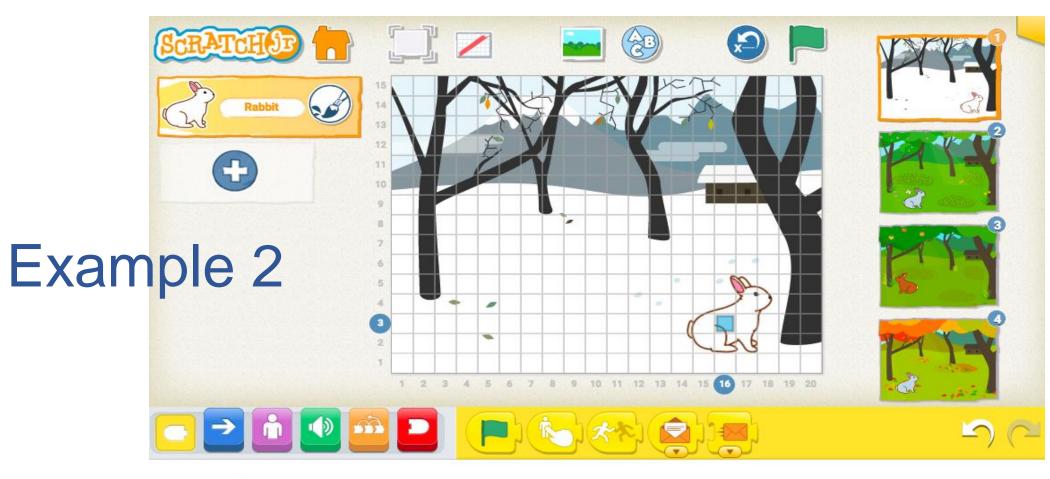




























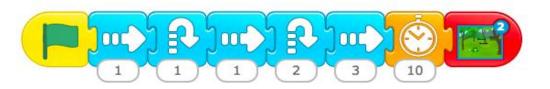


















Thank You!!



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