

Explorations



THE CHALLENGE:

Meteorologists are predicting we will be having a mild winter this year, which usually means more precipitation, giving more opportunity to play and explore!

Your challenge is to bundle up and get outside! No matter the weather, no matter the season, getting outside is important to your health and happiness... and its fun! Try some of these explorations while you are out.

~ Cross-Curricular Team ~
Dream. Explore. Discover.



See STEM North and [MS Teams](#) for digital copies of current and past issues!
(<http://stemnorth.nbed.nb.ca/>)



Exploration 1

Who said you could only blow soap bubbles in the summer?!

As the Earth rotates, we get more direct sunlight in summer, and less direct in winter. Less direct sunlight causes changes in our temperatures. How would this affect blowing soap bubbles?

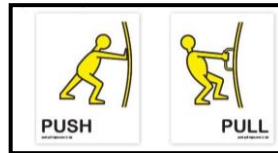
Task: Create a time-lapse or slow-motion video of a soap bubble outside (-9°C or colder). Click [here](#) for ideas if needed. After watching your video, ask yourself and journal the following questions:

What do I see? What do I Know? What do I Wonder?



Exploration 2

We are surrounded with forces everywhere we go and in everything we do. Click on the "Push and Pull" photo to watch a video explaining force!



Task: In groups, create the largest snowball by using the push and/or pull force. When you can no longer move it any further, transform your large snowball into a 3D object and measure the perimeter of one of the faces on your 3D object or find the volume of your object!



Whose 3D object will have the greatest perimeter? Have the greatest volume?

Exploration 3

Close your eyes and imagine.... Trekking through 6 feet of snow hunting and searching for food. Every step you sink deeper and deeper into the snow. How would you feel? How would you continue?

Task 1: Explore First Nations Innovations and create your own snowshoes using items from around your school (inside and out). Now, take them outside and try them out. Did they work? What happened? What would you need to change to make them better?



More info on Mi'kmaq snowshoes

Check out these other fun Winter PE ideas:

WINTER FUN OUTSIDE!

Close-up Capture

Can you identify this close-up picture?



When you are outside exploring, look around for interesting items, scenery and events to take pictures of!



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Explorations – Possible Outcomes & Extensions

Exploration 1

SCIENCE

Skills: SCOs 1.1, 1.2
STSE/Knowledge: Gr 3 (Weather & Climate)

LITERACY

Speaking and Listening 3-5: 1.2. 3.2
Reading and Viewing 3-5: 5.1
Writing and Representing 3-5: 10.1

FILA

3e: Enquête 3
4e: Enquête 2 (2.1)
5e: Enquête 1, 2, 3

Exploration 2

MATH

Shape & Space
Gr3: SS3, SS5, SS6
Gr4: SS4
Gr5: SS2, SS3, SS5

LITERACY

Speaking and Listening 3-5: 3.1
Reading and Viewing 3-5: 5.1

SCIENCE

Skills: SCOs 1.1, 1.2
STSE/Knowledge: Gr 5 (Simple Machines)

Exploration 3

LITERACY

Speaking and Listening 3-5: 1.1, 1.2. 2.1
Reading and Viewing 3-5: 6.1
Writing and Representing 3-5: 10.1, 10.3

SOCIAL STUDIES

Gr.3-People: 3.2.2
Gr.4- Nature of Exploration: 4.2.1,
Gr.5-Introduction: 5.1.1, My Society, 5.6.1

FILA

3e: Enquête 3
4e: Enquête 2, 3 (Premières Nations)
5e Enquête 1, 2, 3 (Premières Nations)

Additional Resources & Extensions

Learning for a Sustainable Future: <http://lsf-1st.ca/>
 Resources 4 Rethinking: <http://resources4rethinking.ca/en/>
 Take me Outside / Amene-moi dehors: <https://takemeoutside.ca/>
 Sustainable Development Goals: <https://bit.ly/38bF6rT>
 MS Teams: [3-5 Science/Cross-Curricular](#)
 FNE Ecology & Technology (Lesson 7): <https://bit.ly/38Xd9n7>
 Arduino Science Journal:
<https://www.arduino.cc/education/science-journal>