

## Explorations

### Exploration 1

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

The Earth rotates, causing more direct sunrays in summer. This also causes less direct sunrays in winter, leading to colder temperatures. What would happen if you tried blowing soap bubbles on a winter day?

**Task:** Get outside and blow some bubbles! See if you can video what happens to the bubble when it's cold out (-9°C or colder). Click [here](#) for ideas. Ask yourself these questions and draw your observations in a journal:

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



## 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.

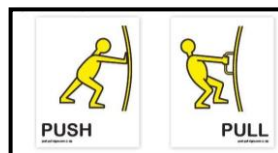
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### Exploration 2

We are surrounded with forces everywhere we go and in everything we do. To learn more about the push and pull force, click the photo below.



**Task:** In groups, create the largest snowball you can by using the push and/or pull force. When you can no longer move it, transform your large snowball into a 3D object and measure the distance around and the height. Try not to have the same 3D objects as other groups in your class.

Whose 3D object will be the largest? tallest?



### Exploration 3

Close your eyes and imagine.....Trekking through the 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:** 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. 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!

## Explorations – Possible Outcomes & Extensions

### Exploration 1- Bubbles

#### LITERACY

Speaking and Listening: K-2: 1.2, 1.4, 2.1

Reading and Viewing: K-2: 7.3

Writing and Representing: K-2: 10.1, 10.3

#### YOU & YOUR WORLD

K: Healthy Lifestyles: 2.2, Senses: 3.2, 3.3

Gr 1: Healthy Lifestyles: 3.1

Gr 2: Healthy Lifestyles: 4.1, Change and the Physical Environment: 5.1

#### FILA

1<sup>o</sup>: Toit et ton monde: 3.1, 3.2, 3.3, 3.4

2<sup>e</sup>: Les états de matières: 3.1, 3.2, 3.3, 3.4

### Exploration 2 – Snowball

#### LITERACY

Speaking and Listening: K-2: 3.1

Reading and Viewing: K-2: 7.3

#### MATH

Shape & Space:

K: SS2, SS3

Gr1: SS2, SS3

Gr2: SS3, SS4, SS5, SS7

#### YOU & YOUR WORLD

K : Healthy Lifestyles 2.2

Gr 1: Healthy Lifestyles 3.1

Gr 2: Healthy Lifestyles 4.1

### Exploration 3 -Snowshoes

#### LITERACY

Speaking and Listening K-2: 1.3, 3.3

Reading and Viewing: K-2: 7.4

#### YOU & YOUR WORLD

K: 1.5

Gr 1 Community: 4.5

Gr 2 Technology and Community:

2.2, Change in the Physical

Environment: 5.1, 5.2, 5.3

#### FILA

1<sup>o</sup>: Toit et ton monde : 1.1, 1.2

Ma communauté des groupes culturels.

2<sup>e</sup> Tout est en changement: 1.1, 1.2



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## Additional Resources & Extensions

10 Outdoor Winter Activities: <https://bit.ly/3992sOu>

Learning for a Sustainable Future: <http://lsf-lst.ca/>

Resources 4 Rethinking: <http://resources4rethinking.ca/en/>

Take me Outside / Amene-moi dehors: <https://takemeoutside.ca/>

Sustainable Development Goals: <https://bit.ly/38bF6rT>

FNE Ecology & Technology (Lesson 7): <https://bit.ly/38Xd9n7>