

THE CHALLENGE:

February often brings flowers, hearts, candy, and messages of love, but have you ever really explored what they can do? Feel the love of learning this month as you explore & discover the Science behind these February icons.

Your challenge is to take those cute icons and make them into curriculum icons through these explorations.

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

BREAKING NEWS!

Did you hear?! Mark your calendar for March 15-18 2021. The first ever NB Science week is bringing you virtual explosions, hands-on activities and special guest speakers including STEVE SPANGLER! Keep your eyes and ears open for more updates soon!

Explorations

Exploration 1

Thirsty flowers and Candy Experiments!

Receiving flowers or candy is always a nice treat. Instead of just admiring (or eating!), why not think like a scientist and investigate!

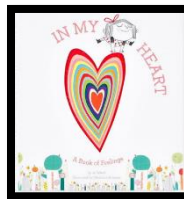


Task 1: Do you think you could make flowers change colors? More than one color? Try this investigation! [Steve Spangler Carnation Experiment](#)

Task 2: Instead of just eating candy, explore it! Try some of these neat experiments with M&Ms, Skittles or Pop Rocks! [Steve Spangler Candy Experiments](#)

Carefully plan your investigations and use your senses to make detailed observations about what is happening! Then figure out WHY it's happening!

Exploration 2



Saying I love you does not come from the heart; it comes from the brain!

Our emotions are controlled by parts of our brain while our feelings are controlled by our senses from the outside.

Read "[In my Heart](#)" by Jo Witek, to help understand different emotions.

Task: Choose one emotion and write a rhyming poem expressing how your senses feel this emotion.



[Click here for SEL activities to go along with the read aloud.](#)

Exploration 3

Syrup, hearts, and sprinkles too
Stir them up but not to chew.
For cells and plasma to name a few.
Hearts pump blood and it's red and blue!

Our blood is more than just a red liquid, it contains many different parts.

Task: Try creating a blood model in a bottle by following the link below. In groups or individual collect a mini bottle, 40 cinnamon hearts, 7-10 white jellybeans, 100 white sprinkles and 1 cup of corn syrup.

Read "[A Drop of Blood](#)" by Paul Showers to help explain the parts of our blood.

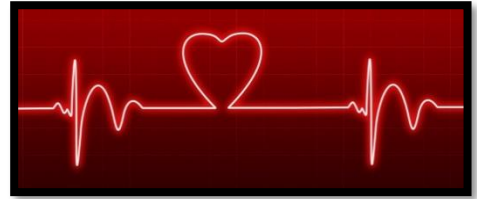
Blood in a bottle



Close-up Capture

Can you identify this close-up picture?





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



Explorations – Possible Outcomes & Extensions

Exploration 1-

YOU & YOUR WORLD

K: 3.1,3.2,3.3

Gr 1: 2.1,2.2, 3.2

Gr 2: 5.2

FILA

1^e: **Toi et ton monde:** (3.2), (3.3), (3.4)

2^e: **Les états de matières:** (3.1), (3.2), (3.3), (3.4)

Exploration 2 –

LITERACY

GCOs K-3

Speaking and Listening: 1, 2, 3

Reading and Viewing: 6, 7

Writing and Representing: 8, 9, 10

YOU & YOUR WORLD

K: 1.1, 1.3, 3.1, 3.2, 3.3

Gr 1: 1.1

Gr 2: 4.1

FILA

1^e: 1.1,3.1,4.3,4.5,5.1

2^e: 4.3,4.5,5.1,5.2,5.3

Exploration 3 -

LITERACY

Reading and Viewing: 4, 5

NUMERACY

Number Sense

K: N1

Gr 1: N1, N3

Gr 2: N1

YOU & YOUR WORLD

Gr 1: 3.1, 3.2

Gr 2: 4.1, 5.1

FILA

1^e: **Toi et ton monde**
3.1,3.2,3.3, 3.4

2^e **Toi et ton monde**
3.1,3.2,3.3,3.4

First Nation Education Extension

[Explorations](#)

Additional Resources & Extensions

Steve Spangler [Sick Science](#)

Brilliant Labs [Maker Fun and After-School Virtual Programs](#)

Science East [Inquiry-based Learning](#)

Smarter Science [Step into Inquiry](#)

Chris Wood [dailySTEM](#)

Mark Rober [NASA/Apple Engineer/Youtuber](#)