



NAME: .....

DATE: .....

## UNIT 4: MATTER

### **Introduction**

Your hockey team, the ICE NAVIGATORS, has a big problem! The hockey championship is just a few days away and the Ice Navigators Rink has NO ICE!

One day it was perfectly frozen ice, the next day it was just a big pool of water. Then, POOF...it was gone!

**Where did it go? What's the matter at the rink?**

Your coaches, Marta and Cèlia, have asked you and your teammates for help! They want to know what happened to the ice! How was it solid one day, liquid the next and gone the following?

You know this is a serious matter... No ice, no championship game!

You will learn as much as you can about this matter and report back to the coach.

**HURRY!** You have to figure this problem out before the big game!

### **Task**

**You better get started on your investigation!**

You and your teammates will need to find as much information as you can about the three states of matter.

You will learn some songs about matter, read some cool poems and watch some videos too.

Once you complete all the tasks, you will be ready to report what happened to the ice.

There is so much to learn about matter in a very short time! So, you should take notes. Print out a journal page for your notes. (Look the page attached)

### IF YOU LIKE LISTENING OR SINGING SONGS...

Sometimes learning a song helps you remember things quickly. Listen to the following song. Don't forget to take notes. You will need them later.

[https://www.youtube.com/watch?v=DPizS4hKvyA&feature=emb\\_title](https://www.youtube.com/watch?v=DPizS4hKvyA&feature=emb_title)

(Chorus)

Oh, dear, what can this matter be?  
Oh, dear, what can this matter be?  
Oh, dear, what can this matter be?  
Solid or liquid or gas?

A solid has weight, takes up space,  
Has a certain shape.  
Li-iquid has weight, takes up space,  
But conforms to the vessel in which it is  
put.  
So a sol-id and li-iquid  
Look different to me.

(Chorus)

Oh, dear, what can this matter be?  
Oh, dear, what can this matter be?  
Oh, dear, what can this matter be?  
Solid or liquid or gas?

A gas is invisible, but we can prove  
It has weight, takes up space,  
Have you seen a balloon filled with gas,  
Where the molecules spread and they  
spread  
Into all of the spaces you see?

(Chorus)

Oh, dear, what can this matter be?  
Oh, dear, what can this matter be?  
Oh, dear, what can this matter be?  
Solid or liquid or gas?

So matter is anything that takes up space,  
And a solid can be very heavy or light  
And a liquid can change into solid and  
back again.  
Gases will float in the air

(Chorus)

Oh, dear, what can this matter be?  
Oh, dear, what can this matter be?  
Oh, dear, what can this matter be?  
Solid or liquid or gas?

### IF YOU LIKE READING POETRY...

Maybe reading some poetry would help too! Read the poems and take good notes!

[http://www.tooter4kids.com/classroom/states\\_of\\_matter\\_poetry.html](http://www.tooter4kids.com/classroom/states_of_matter_poetry.html)

### IF YOU LIKE WATCHING VIDEOS...

Click the following links to investigate more about matter and why it changes from one state to another.

<https://www.youtube.com/watch?v=dDSFuIJagbo>

<https://www.youtube.com/watch?v=wyRy8kowsM8>

<https://www.youtube.com/watch?v=68QDZAI29oE>

<https://www.youtube.com/watch?v=jmmlIJ2yI9tk>

### ONCE YOU FINISH...

Complete the following page!

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The answer key will be given to you next Wednesday 22<sup>nd</sup> April.

# ICE NAVIGATORS JOURNAL



Name and surnames: \_\_\_\_\_

Use the following sheet to take notes about "What's the matter?"

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What are the three states of matter?

- 1.
- 2.
- 3.

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What are the properties or characteristics of each state of matter?

- 1.
- 2.
- 3.

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How does water change at different temperatures?

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What happened to the ice at the skating rink?