EVERYTHING COMES FROM SOMEWHERE. IF IT DIDN'T GROW, IT WAS MINED!

VIRTUAL YUKON MINING WEEK MAY 4TH - MAY 8TH

PRESENTED IN PARTNERSHIP

> Women Mining

Activity 5: Elemental Deduction Activity 6: Mining for Energy Activity 7: Mining Makes It Possible Activity 8: Periodic Table Spelling Bee

CONTEST OPEN TO GRADES 4-6

GRAND PRIZE ENTRIES

1)

SUBMISSION:

ON SOCIAL MEDIA - FACEBOOK:

@YukonWomenInMining – Virtual Yukon Mining Week Event Page #VYMW2020

BY E-MAIL: submissions@yukonwim.ca

INCLUDE SUBJECT LINE: Activity Name, Your Name, Your Grade i.e.: Activity 1: Elemental Deduction, Annabelle Smith, Grade 6

HOW TO PLAY!

- Complete an Activity and Answer the Questions
- 2 Submit Your Activity to Enter into the Grades 4-6 draw by Friday, May 8th at 5PM
- 3 Not in Grades 4-6? No problem! Complete the Activities and be entered into the Grand Prize!

The more activities you complete, the greater your chances of winning!

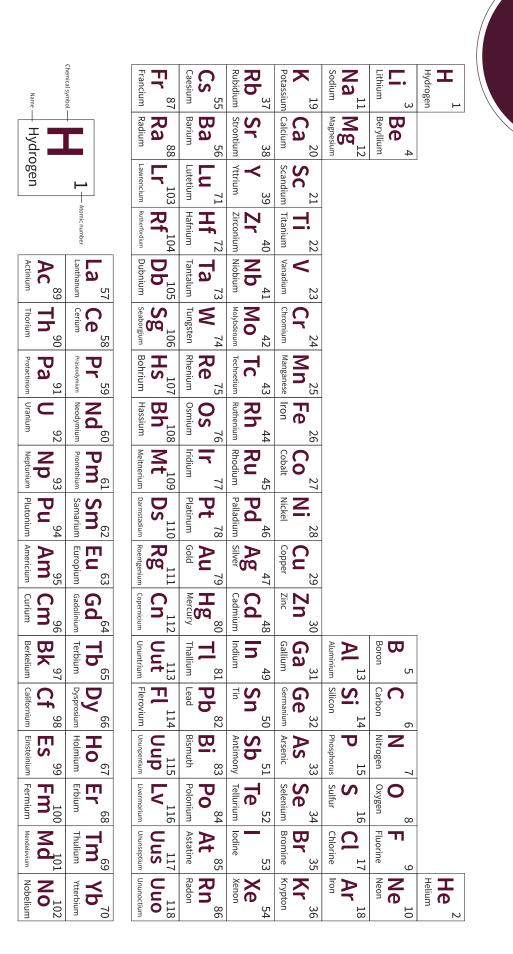
Winners will be posted on FACEBOOK:
@YukonWomenInMining – Virtual Yukon Mining Week
Event Page and contacted from May 11th – 15th

INCREASE YOUR CHANCES OF WINNING

Complete more activities! Every completed activity is another time your name will be in the draw.

grade	GROUPS
K-3	4-6
7-9	10-12

To learn more about Internet safety, please visit: http://www.justice.gov.yk.ca/2404.html Before you go online, please check with your parents or guardians.



THE PERIODIC TABLE OF ELEMENTS

NING

MAY 4TH - MAY 8TH

RESOURCE TOOL

ACTIVITY 5: ELEMENTAL DEDUCTION



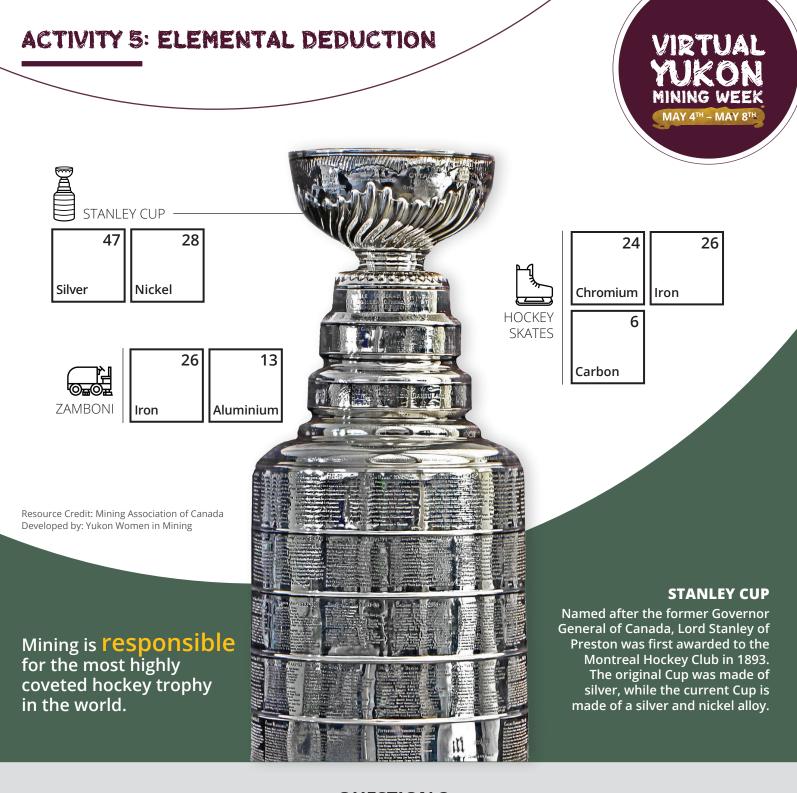
that were mineu	that were mined – How many can you find?				
1	6				
2	7				
3	8				
4	9				
5	10				

DON'T FORGET TO SUBMIT BY FRIDAY, MAY 8[™] AT 5PM!

SUBMISSION PROCESS

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GR. 4-6



QUESTION 3: Which of the following is an element? (Circle the correct answer)

A) WATER

B) HEAT

C) VOLUME

D) GOLD

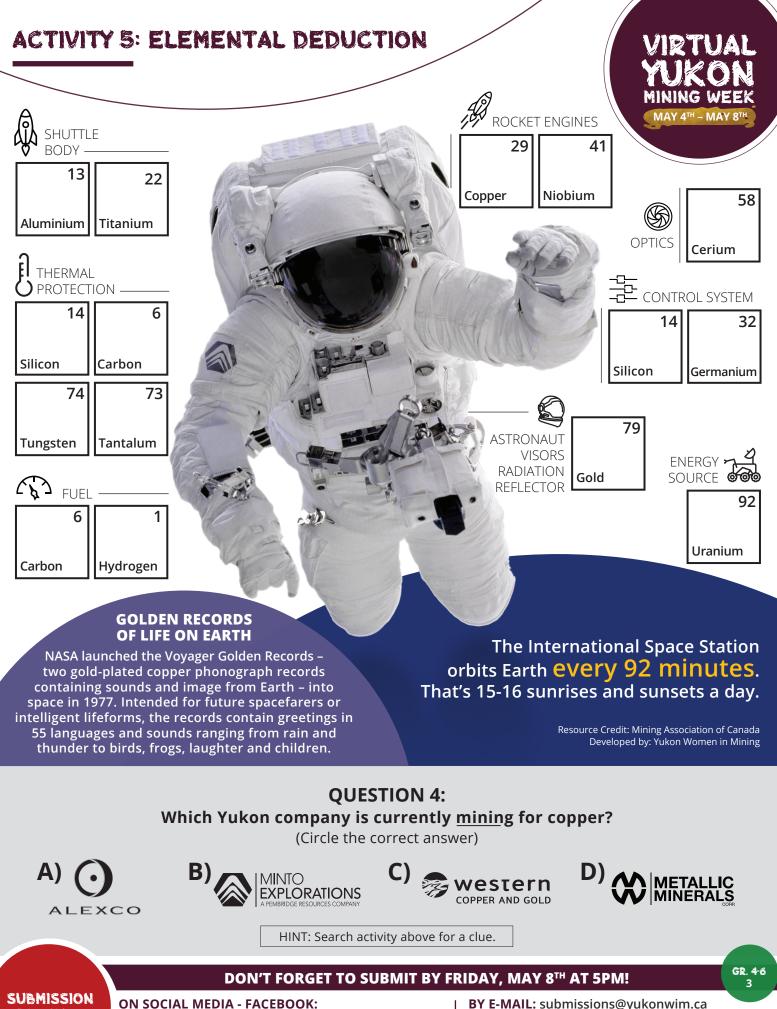
GR. 4-6

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@YukonWomenInMining – Virtual Yukon Mining Week Event Page

PROCESS

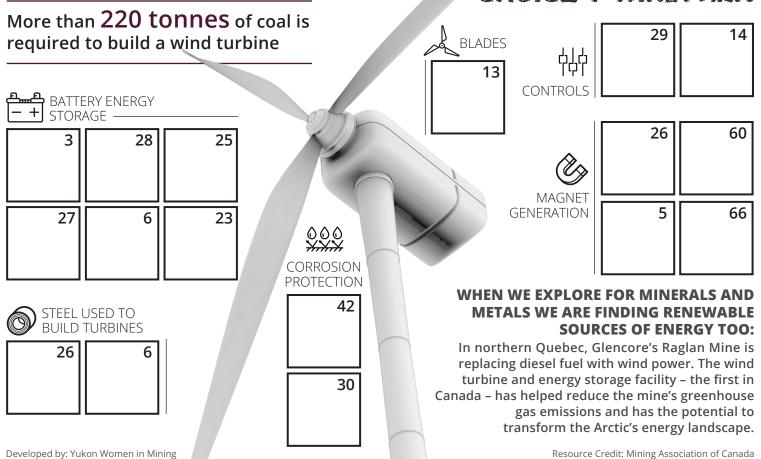
BY E-MAIL: submissions@yukonwim.ca Include Subject Line: Activity Name, Your Name, Your Grade

ACTIVITY 6: MINING FOR ENERGY

Your home is "on the grid" – connected to electrical power from Yukon's Hydro Dams. You are interested in supplementary energy using one of two renewable energy options made from mining materials. Choose from one of the two power options and fill in the blanks with the element name and symbol, use spare paper if you need more room. VIRTUAL YUKON MINING WEEK MAY 4TH - MAY 8TH

WHAT DO I NEED? The Periodic Table

Online Research



QUESTION 1:

What year was the periodic table first developed and by who?

QUESTION 2:

Name a Yukon company mining company that is <u>exploring</u> for copper?

ON SOCIAL MEDIA - FACEBOOK:

HINT: The company name is on Activity 7 Resource Tool

QUESTION 3:

What metals are required for battery energy storage for wind farms? (Circle the correct answer)

- A) Copper, Silicon, Cobalt, Boron
- B) Molybdenum, Zinc, Iron, Aluminum
- C) Carbon, Zinc, Dysprosium, Iron
- D) Nickel, Lithium, Magnesium, Cobalt

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SUBMISSION PROCESS

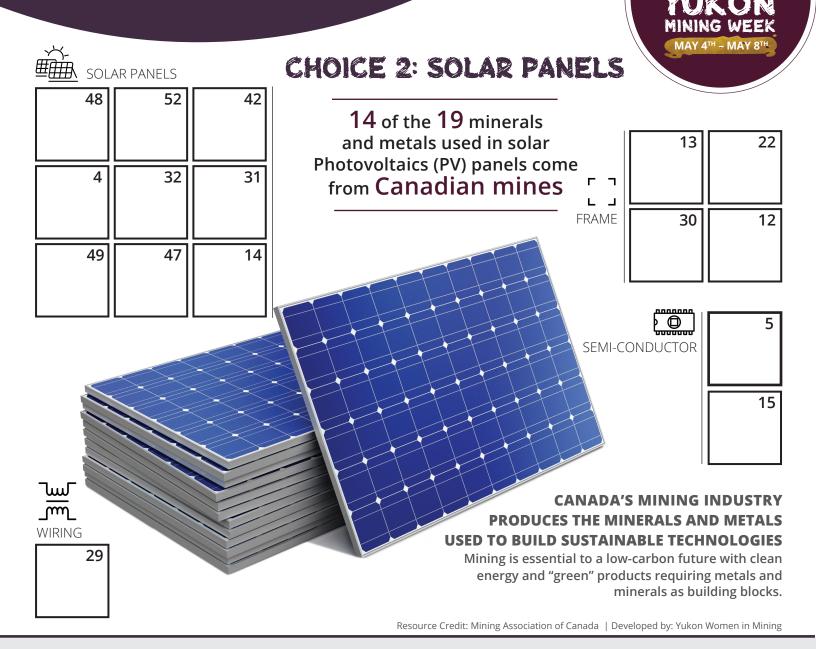
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GR. 4-6

CHOICE 1: WINDFARM

ACTIVITY 6: MINING FOR ENERGY



QUESTION 4:

Which side (left or right) of the periodic table are the metals?

A) Left

QUESTION 5:

Can you name a solar company in Yukon?

QUESTION 6:

How many of the 19 minerals and metals used in solar PV panels come from Canadian mines? (Circle the correct answer)

A)	11	B)	16
()	14	D)	19

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GR. 4-6

ACTIVITY 7: MINING MAKES IT POSSIBLE

WHAT DO I NEED?

The Periodic Table & Online Research

VIRTUAL YUKON MINING WEEK MAY 4TH - MAY 8TH

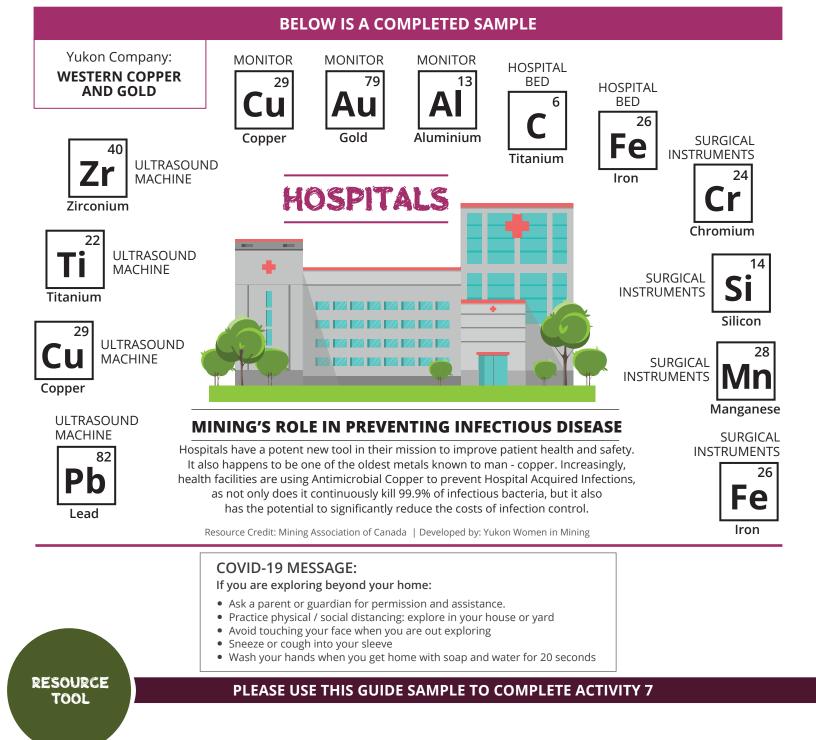
Explore in your house or yard to find a product made from mining elements, minerals and metals that makes your life possible. Create your own guide!

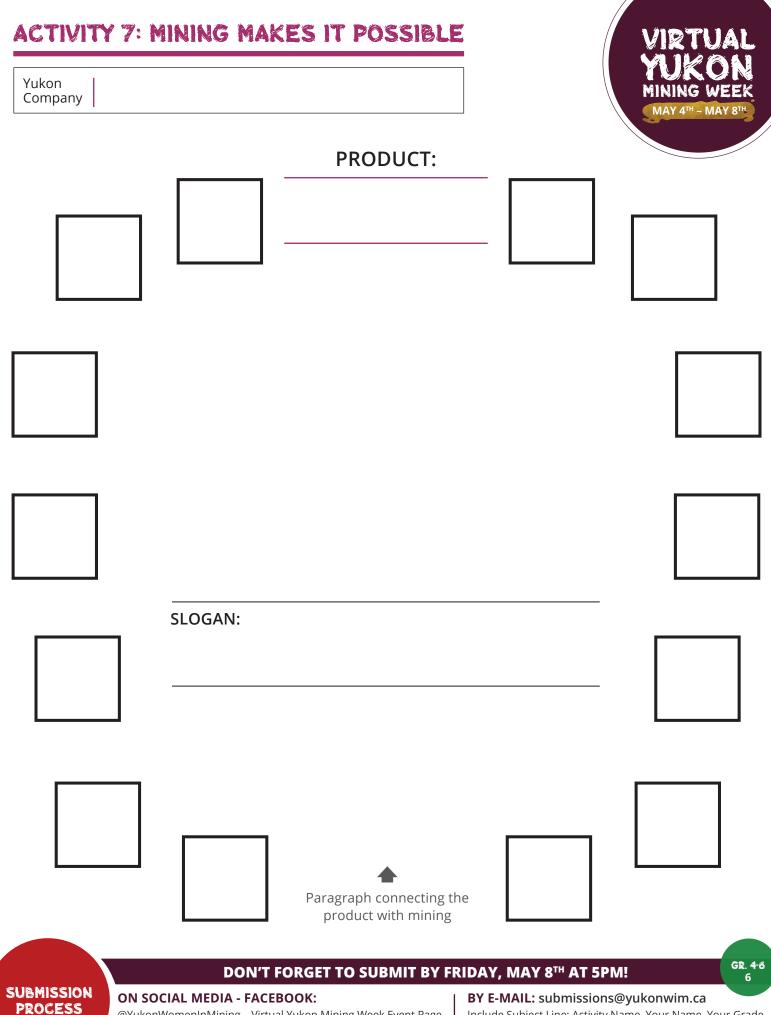
BUT... THERE IS 1 RULE!

You must do your own research! Examples from Activity One and Two cannot be used, nor any of the samples found in Mining Association of Canada's 30 Things.

COMPLETE THE TEMPLATE, OR DRAW YOUR OWN:

- How To: 1) Pick a Product
 - 2) Fill in the template <u>or</u> create your own
 - 3) Minimum Number of Elements: 10
 - 4) Name a Yukon mining or supply/service company connected to your product
 - 5) Have fun!





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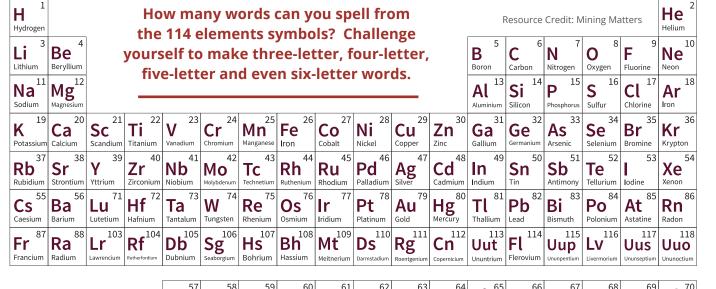
Include Subject Line: Activity Name, Your Name, Your Grade

ACTIVITY 8: PERIODIC TABLE SPELLING BEE



Elements are the basic building blocks of everything around us. They can be found either in their pure form or chemically combined with other elements to make compounds.

Minerals are elements or compounds that occur naturally in the Earth's crust. Rocks are mixtures formed of minerals.



La ⁵⁷ Lanthanum	Cerium ⁵⁸	Praseodymium	Nd ⁶⁰ _{Neodymium}	Promethium	Samarium	Eu ⁶³ Europium	Gd ⁶⁴ Gadolinium	Tb ⁶⁵ Terbium	Dy by Dysprosium	H0 ⁶⁷	Er Erbium	Tm ⁶⁹	Yb ⁷⁰ _{Ytterbium}
Actinium 89	Th ⁹⁰	Pa ⁹¹ Protactinium	92 Uranium	Np Neptunium	Pu Plutonium	95 Am Americium	Cm ⁹⁶ Curium	97 Berkelium	Californium	99 Es Einsteinium	Fermium	Md ¹⁰¹ Mendelevium	Nobelium

THREE LETTERS







SUBMISSION

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GR. 4-6 7

ACTIVITY NAME:	VIRTUAL
YOUR NAME:	YUKON MINING WEEK
YOUR GRADE:	MAY 4 TH - MAY 8 TH

EXTRA PAGE - PRINT AS NEEDED

DON'T FORGET TO SUBMIT BY FRIDAY, MAY 8TH AT 5PM!

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ACTIVITY NAME: YOUR NAME:	VIRTUAL YUKON
YOUR GRADE:	MINING WEEK MAY 4 TH - MAY 8 TH

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