

ACTIVITY 7: MINING MAKES IT POSSIBLE



WHAT DO I NEED?

The Periodic Table & Online Research

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 or 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!

BELOW IS A COMPLETED SAMPLE

Yukon Company:
WESTERN COPPER AND GOLD

MONITOR MONITOR MONITOR HOSPITAL BED HOSPITAL BED

Cu²⁹ **Au**⁷⁹ **Al**¹³ **C**⁶ **Fe**²⁶

Copper Gold Aluminium Titanium Iron

Zr⁴⁰ **Ti**²² **Cu**²⁹ **Pb**⁸²

Zirconium Titanium Copper Lead

ULTRASOUND MACHINE ULTRASOUND MACHINE ULTRASOUND MACHINE ULTRASOUND MACHINE

Cr²⁴ **Si**¹⁴ **Mn**²⁸ **Fe**²⁶

Chromium Silicon Manganese Iron

SURGICAL INSTRUMENTS SURGICAL INSTRUMENTS SURGICAL INSTRUMENTS SURGICAL INSTRUMENTS

HOSPITALS

MINING'S ROLE IN PREVENTING INFECTIOUS DISEASE

Hospitals have a potent new tool in their mission to improve patient health and safety. It also happens to be one of the oldest metals known to man - copper. Increasingly, health facilities are using Antimicrobial Copper to prevent Hospital Acquired Infections, as not only does it continuously kill 99.9% of infectious bacteria, but it also has the potential to significantly reduce the costs of infection control.

Resource Credit: Mining Association of Canada | Developed by: Yukon Women in Mining

COVID-19 MESSAGE:

If you are exploring beyond your home:

- Ask a parent or guardian for permission and assistance.
- Practice physical / social distancing: explore in your house or yard
- Avoid touching your face when you are out exploring
- Sneeze or cough into your sleeve
- Wash your hands when you get home with soap and water for 20 seconds

RESOURCE
TOOL

PLEASE USE THIS GUIDE SAMPLE TO COMPLETE ACTIVITY 7

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Yukon Company |

PRODUCT:

SLOGAN:

↑
Paragraph connecting the product with mining

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

**SUBMISSION
PROCESS**

ON SOCIAL MEDIA - FACEBOOK:

@YukonWomenInMining – Virtual Yukon Mining Week Event Page

BY E-MAIL: submissions@yukonwim.ca

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

**GR. 4-6
6**



THE PERIODIC TABLE OF ELEMENTS

H 1 Hydrogen	He 2 Helium
Li 3 Lithium	Be 4 Beryllium
Na 11 Sodium	Mg 12 Magnesium
K 19 Potassium	Ca 20 Calcium
Rb 37 Rubidium	Sr 38 Strontium
Cs 55 Caesium	Ba 56 Barium
Fr 87 Francium	Ra 88 Radium
	Sc 21 Scandium
	Ti 22 Titanium
	V 23 Vanadium
	Cr 24 Chromium
	Mn 25 Manganese
	Fe 26 Iron
	Co 27 Cobalt
	Ni 28 Nickel
	Cu 29 Copper
	Zn 30 Zinc
	Al 13 Aluminium
	Si 14 Silicon
	P 15 Phosphorus
	S 16 Sulfur
	Cl 17 Chlorine
	Ar 18 Iron
	Kr 36 Krypton
	Xe 54 Xenon
	Rn 86 Radon
	Lu 71 Lutetium
	Hf 72 Hafnium
	Ta 73 Tantalum
	W 74 Tungsten
	Re 75 Rhenium
	Os 76 Osmium
	Ir 77 Iridium
	Pt 78 Platinum
	Au 79 Gold
	Hg 80 Mercury
	Tl 81 Thallium
	Pb 82 Lead
	Bi 83 Bismuth
	Po 84 Polonium
	At 85 Astatine
	Rn 86 Radon
	Y 39 Yttrium
	Zr 40 Zirconium
	Nb 41 Niobium
	Mo 42 Molybdenum
	Tc 43 Technetium
	Rh 44 Ruthenium
	Ru 45 Rhodium
	Pd 46 Palladium
	Ag 47 Silver
	Cd 48 Cadmium
	In 49 Indium
	Sn 50 Tin
	Sb 51 Antimony
	Te 52 Tellurium
	I 53 Iodine
	Xe 54 Xenon
	Rf 104 Rutherfordium
	Db 105 Dubnium
	Sg 106 Seaborgium
	Hs 107 Bohrium
	Bh 108 Hassium
	Mt 109 Meitnerium
	Ds 110 Darmstadtium
	Rg 111 Roentgenium
	Cn 112 Copernicium
	Uut 113 Ununtrium
	Fl 114 Flerovium
	Uup 115 Ununpentium
	Lv 116 Livermorium
	Uus 117 Ununseptium
	Uuo 118 Ununoctium
	La 57 Lanthanum
	Ce 58 Cerium
	Pr 59 Praseodymium
	Nd 60 Neodymium
	Pm 61 Promethium
	Sm 62 Samarium
	Eu 63 Europium
	Gd 64 Gadolinium
	Tb 65 Terbium
	Dy 66 Dysprosium
	Ho 67 Holmium
	Er 68 Erbium
	Tm 69 Thulium
	Yb 70 Ytterbium
	Ac 89 Actinium
	Th 90 Thorium
	Pa 91 Protactinium
	U 92 Uranium
	Np 93 Neptunium
	Pu 94 Plutonium
	Am 95 Americium
	Cm 96 Curium
	Bk 97 Berkelium
	Cf 98 Californium
	Es 99 Einsteinium
	Fm 100 Fermium
	Md 101 Mendelevium
	No 102 Nobelium

Chemical symbol — **H** — Atomic number

Name — Hydrogen

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La 57 Lanthanum	Ce 58 Cerium	Pr 59 Praseodymium	Nd 60 Neodymium	Pm 61 Promethium	Sm 62 Samarium	Eu 63 Europium	Gd 64 Gadolinium	Tb 65 Terbium	Dy 66 Dysprosium	Ho 67 Holmium	Er 68 Erbium	Tm 69 Thulium	Yb 70 Ytterbium
Ac 89 Actinium	Th 90 Thorium	Pa 91 Protactinium	U 92 Uranium	Np 93 Neptunium	Pu 94 Plutonium	Am 95 Americium	Cm 96 Curium	Bk 97 Berkelium	Cf 98 Californium	Es 99 Einsteinium	Fm 100 Fermium	Md 101 Mendelevium	No 102 Nobelium

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



ACTIVITY NAME:

YOUR NAME:

YOUR GRADE:



EXTRA PAGE - PRINT AS NEEDED

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