

METALS

CONNECT THE WORLD

WHAT ARE METALS?

Metals have properties such as lustre, hardness, flexibility, magnetism, and conductivity that help make materials. Gold, copper and nickel are all metal ore deposits formed under the sea > 1.8 billion years ago during a time when volcanoes and mountains were forming.



1

COPPER

Is used for:
Plumbing
Cookware
Anti-Bacteria
Music Instruments
Wires & Circuits



WHY IS IT IMPORTANT?

GOLD

Is used for:
Currency
Jewelry
Dentistry
Phones & Electronics



79
Au
Gold

3

NICKEL

Is used for:
Stainless Steel
5, 10, & 25 Cent Coins
Batteries
The Stanley Cup
Wind Turbines
Solar Panels
Magnets



28
Ni
Nickel

4

HOW IS IT MINED?

Underground, rock is blasted with dynamite to form tunnels. The metal ore is brought to the surface using haul trucks.



5

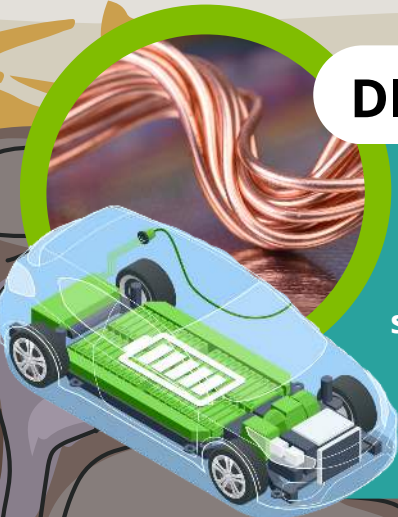
WHERE IN SK?

Metals are found in east central Saskatchewan near Flin Flon and La Ronge.



DID YOU KNOW?

Electric vehicles need up to 4 times more copper (180 pounds) than a standard gas vehicle. The battery of an electric vehicle needs up to 88 pounds of nickel.



CRITICAL MINERALS?

Copper and Nickel are critical minerals. NRCAN has identified 34 critical minerals, 27 of these are found in Saskatchewan. Our power, food, health, and technology depend on critical minerals.

