

WAAWAATE AND THE MAGNETOSPHERE



SCAN ME

Or use this link:

<https://bit.ly/3t1miTQ>

Scan the code on your smartphone camera to listen to our Virtual Storytelling Series on Northern Lights, "Painted Skies" by Carolyn Mallory (Author) and Amei Zhao (Illustrator)

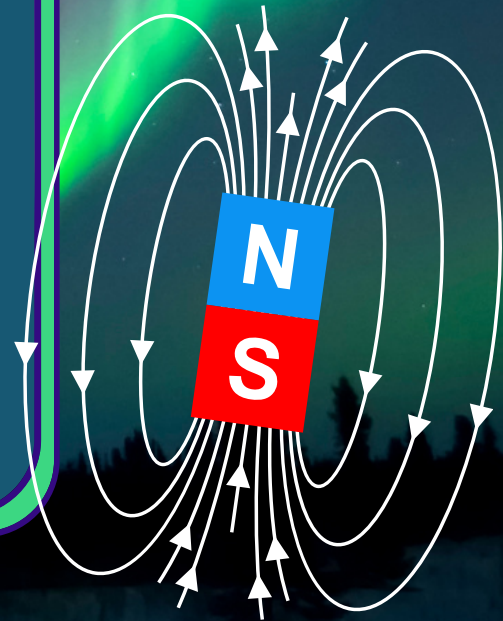
WHAT ARE THE NORTHERN LIGHTS?

Wawaate is known as the Northern lights or Aurora Borealis in Ojibwemowin which occur near the North Pole. This phenomenon has been observed by many cultures all over the world, and for thousands of years! They are a visual reminder of the Earth's connection to the Sun's energy. Auroras also occur in the Southern Pole, and are known in Western Science as Aurora Australis.



SO, HOW ARE THEY CREATED?

Inside of Earth is a molten iron core that rotates quickly, causing it to act as a large magnet. This creates a magnetic field around Earth called the magnetosphere, with a North and South pole. When the Sun projects particles known as Solar Winds, most of them are deflected by the magnetic field around Earth. In areas that the magnetic field is weakest, at the North and South Poles, some particles can make it through the field. Here they excite and light up the nitrogen and oxygen in our atmosphere, creating beautiful colourful Auroras.



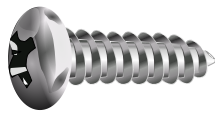
MAGNETOSPHERE SCAVENGER HUNT

Use this scavenger hunt list and household magnets to figure out which objects around your house possess a magnetic pull, just like the North and South poles!

Household magnets can often be found on your fridge!

Materials

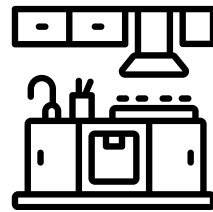
- Writing utensils
- Magnet
- Scavenger Hunt List



Something shiny



Something small



Three items in your kitchen



Two school supplies



Something round



Something outside



Something on a door



Something with wheels



Something big!