Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Making and Breaking a Magnet**

**PRE- QUESTIONS – You may not know the answer to some of these right away –COME BACK TO THEM**

Why would a train move faster using electromagnets?

Where are magnets the strongest?

Since we know the Aurora Borealis occurs because of magnetism, why do you think it only occurs in 2 places on earth?

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_- are tiny fields of magnets that normally go \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

When we can organize them in \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ we get \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**N**

**N**

**S**

**S**

**DRAW WHAT THESE LOOK LIKE**

**Unmagnetized**  **Magnetized**

Two main categories of magnets

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - lose magnetism much easier

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - Hard to magnetize but, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ for a long time

**Permanent Magnets**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ materials – have strong magnetic properties

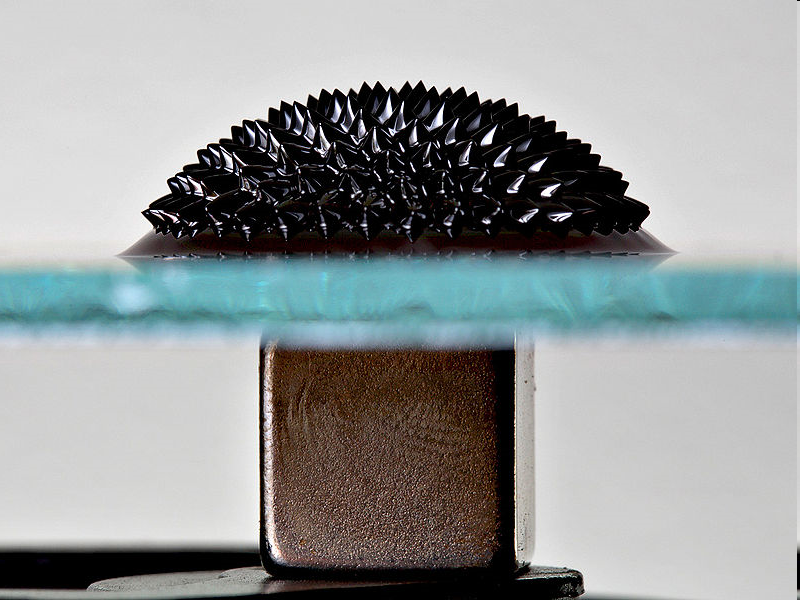
Examples : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ALNICO is made up of: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* \_\_\_\_\_\_\_ and \_\_\_\_\_\_ to make

Most common magnets now are \_\_\_\_\_\_\_\_\_\_\_\_\_





**Ferrofluid** - \_\_\_\_\_\_\_\_\_\_\_ mixed with

\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ that will react to

\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

**Making a stronger magnet**

The better the domains are \_\_\_\_\_\_\_\_\_ - the \_\_\_\_\_\_\_\_\_\_ the magnet

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ are examples of very focused magnets used for a specific purpose

**GOOGLE WHAT AN MRI MACHINE DOES AND EXPLAIN BELOW:**