



## Meeting #19: Magnet Fun I



## Homework

Anchoring in Christ Character Activity

Family Connection Worksheet: Self-Control

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Memory Work

**Hebrews 7:19 KJV** - "For the law made nothing perfect, but the bringing in of a better hope did; by the which we draw nigh unto God."

**James 4:8 NKJV** - "Draw near to God and He will draw near to you. Cleanse your hands, you sinners; and purify your hearts, you double-minded."

*Completes requirements for Magnet Fun I #6.*

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Magnet Worksheet

Complete Magnet Fun I worksheet. Watch some simple videos about magnets.

*Completes requirements for Magnet Fun I #1-4.*

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## Meeting #19: Magnet Fun I

## Classwork



Make a Magnet

Stroke a needle 30-40 times on one pole of a magnet. The strokes should be in the same direction. (check with a paper clip) Attach the needle to a cork using a piece of modeling clay. Place in a bowl of water. Let the homemade compass stop moving and check with a store compass. Mark your homemade compass N, S, E, W.

*Completes part of the requirements for Magnet Fun I #5.*

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Magnet Experiments

Rotate through three simple magnet experiments such as:

**Magnet Strength** - select several magnets, predict which is the strongest, see how many paper clips each can pick up.

**Magnet pole power** - hold a bar magnet in the middle on a string. Hang paper clips end-to-end from both the north and south poles of the magnet. Keep adding paperclips until they start to fall off. Which pole is stronger?

**Invisible Force** - Put a metal washer in a glass of water. Try and remove the washer without getting your hand or the magnet wet.

*Completes requirements for Magnet Fun I #5.*

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Magnet Craft

Make a refrigerator magnet out of a flat clear marble, picture, and small round magnet. Choose a picture, attach it right-side-up to flat-side of marble with mod podge. Glue round magnet on the back.

*Completes requirements for Homecraft #4, Meeting #14.*

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# Family Connection

**OVERVIEW:** A car that drifts out-of-control is dangerous to everyone in its path—and to everyone inside the car.

Similarly, losing control over your temper, emotions, or will-power can cause a lot of unnecessary pain. Self-control means steering your life in a positive direction and doing what is right. When you say “no” to one thing, think of it as saying “yes” to something better—something that can help you reach your goals!

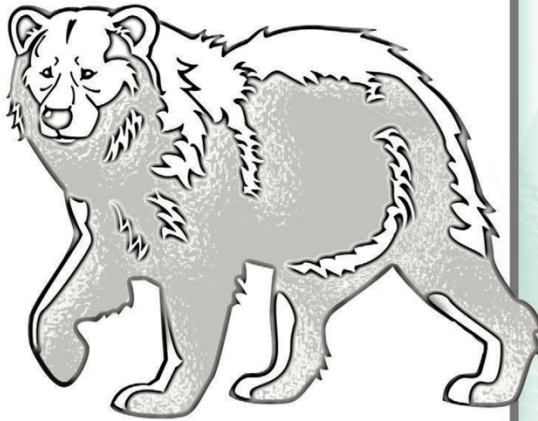
## Self-Control

**Definition:** Choosing to do what is right, even when I don't feel like it

### I WILL...

- Think before I act.
- Control my temper.
- Respect others and their belongings.
- Sit still and be quiet.
- Build healthy habits.

The Black Bear demonstrates self-control as it prepares each year for winter hibernation. The bear stops eating, slows its breathing, and lowers its heart rate while it sleeps.



### CHARACTER QUIZ:

1. Why is it important to do what is right, even when you don't feel like it? \_\_\_\_\_
2. What could happen to someone who has very little self-control? \_\_\_\_\_
3. Self-control includes: **a.** going to bed on time. **b.** not over-eating. **c.** showing good manners. **d.** all of the above.
4. Self-control means you never have any fun: TRUE? or FALSE?
5. What are some healthy habits that can make you a stronger person? \_\_\_\_\_
6. Athletes make a lot of sacrifices in order to reach their goals. Can you think of ways athletes show self-control or self-discipline?  
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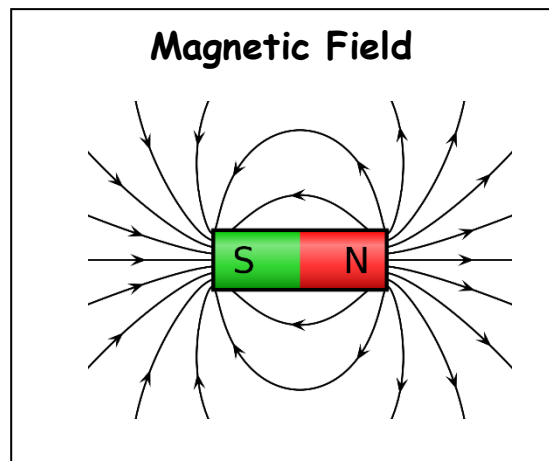
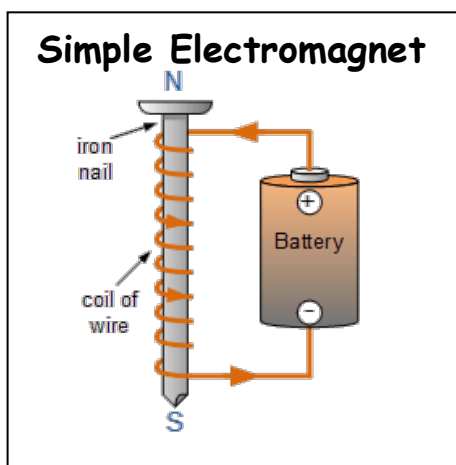


## The Legend of the Magnet

*A legend is a traditional story that is sometimes popularly believed to be true, but is impossible to know for sure (unauthenticated).*

*Read the following legend about how the first magnet was found and named.*

Many years ago, there was a shepherd named Magnes. Each day he kept watch over his flocks. One cold, blustery day one of Magnes' lambs was missing from its mother's side. Neither Magnes nor the mother could locate the little lamb. He looked behind rocks, in the thicket, near the stream, and behind the bushes, and soon he realized it was really lost. He didn't believe a wild animal had stolen it or eaten it. He was sure he could find it if only he looked in all the right places. He stood on a large rock so he could look upon the landscape of the pasture in hopes of finding Whitey, the lost little lamb. As Magnes stood on a rock his sandals stuck to the rock where the nails in his sandals were located. He had never noticed that strange power before. Over a period of days and weeks, he brought other metal objects to the "magic rock" and found that iron, regardless of the size, would stick to the "magic rock." He took some of the stone to his village and children, moms, and dads played with it. It became known as "Magnes' stone." Today it bears part of his name in honor of his discovery—magnet. We call his "magic stone" a lodestone, which is made of **magnetite, a natural magnetic material**.





## Magnet Fun I

- 1) A \_\_\_\_\_ magnet, once magnetized, retains a level of magnetism.
- a. permanent                      b. temporary                      c. electromagnet
- 2) Magnets can be made from this naturally occurring mineral \_\_\_\_\_.
- a. magnesium                      b. rubber                      c. magnetite
- 3) A special wire which acts like a permanent magnet when electrical current is flowing in the wire.
- a. electromagnet                      b. electronics                      c. telegraph
- 4) The force surrounding a magnet that draws objects to the magnet.
- a. force field                      b. magnetic field                      c. corn field
- 5) A \_\_\_\_\_ magnet acts like a permanent magnet when it is within a strong magnetic field, but loses its magnetism when the magnetic field disappears.
- a. refrigerator                      b. permanent                      c. temporary



Name three things magnets are used for:



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