

MAGNET GAMES

Make your own board games and rules, all you need is magnets, imagination, and a friend.

In this one we're going to make a winter and Valentine's Day themed maze and racing game.

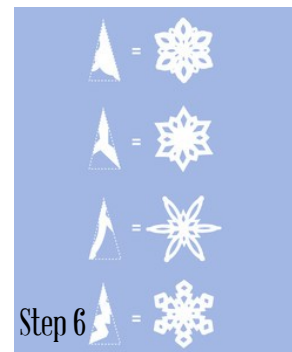
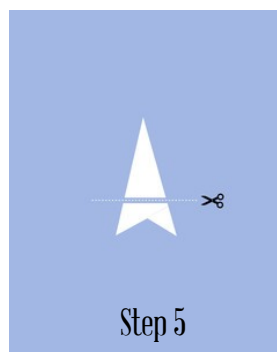
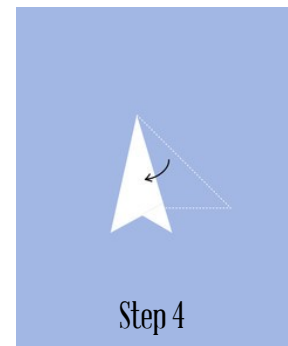
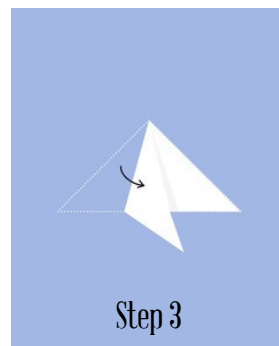
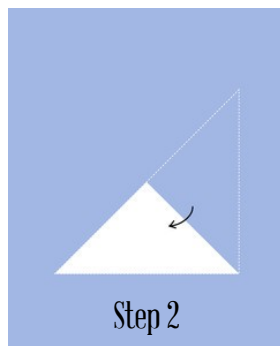
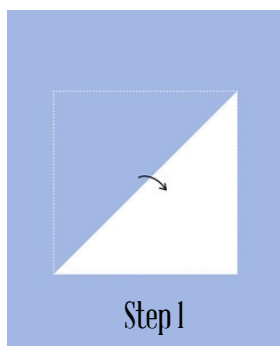
SUPPLIES:

- Folder
- Paper (printer or construction)
- Scissors
- Tape
- Markers, crayons, or coloured pencils
- Magnet
- Paper clip or other metal object.



PROCEDURE:

First, we are going to make a simple snowflake in honour of it being winter. You can follow the following diagram to make one similar to mine from a regular piece of printer paper that you trim to make a square.



Clearly, I didn't use any of these cutting suggestions for mine, and neither do you!

Simple cuts are just fine and create a great maze for you to work with.

Next, we'll make the maze, so grab your markers. I am delivering tulips to my friend for Valentine's Day, as those are her favourite flowers. Draw a thing you'd like to take to your friend or mum, then somewhere else on the snowflake draw a heart. Connect the two with your race track.

SETTING UP THE GAME:

Now that you've got your board made, it's time to set it up to play.

Tape the snowflake to the folder. Set the folder so it stands up and you can easily access the back.

Take your paper clip, and hold it to the front of the folder on the snowflake side, and hold a magnet up to the back.

Have someone give you directions on which direction to turn, and see if you can get to the end goal!

SCIENCE:

The magnet is holding the paper clip to the paper, and you are using magnetic force to pull or push the clip from place to place.

EXPERIMENT IDEAS!

Will any pointer work? Try different types of metals & materials.

Are you pushing or pulling? Use iron filings to see the magnetic field!

What happens if two people playing on the same board pass each other?

Which magnet shapes work better?

Why does the pointer change directions when you move the magnet?

How tight of corners can you get the pointer to turn?

What happens if you wrap the magnet or pointer with tape?

What happens if you wrap the magnet with wire?

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