

## Magnetic Compass & Treasure Map Activities

### Make Your Own Compass

In *THE RISE OF THE LEGENDS*, George finds himself marooned on the island of Anu-he. He needs a compass to determine his path, but the one he brought with him is broken. Using his knowledge of STEM and some simple tools, he makes one himself! You can do it too!

#### What You Need:

- A small bowl of water
- A sewing needle or straightened paper clip
- A small piece of cork, foam, or a plastic bottle cap
- A magnet (fridge magnets work)
- Tape (optional)

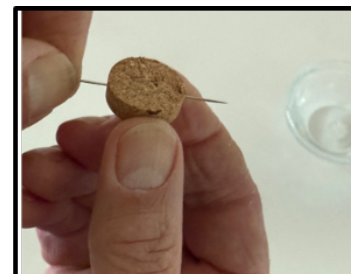


#### Step by Step:

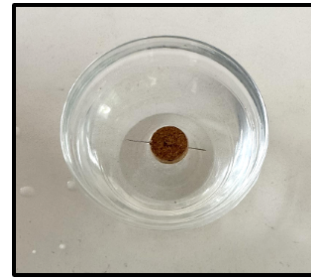
1. Magnetize the needle – Rub one end of the magnet along the needle, always in the same direction, about 20 times.



2. Make it float – Push the needle through the cork or tape it to the bottle cap.



3. Watch it point north – Place it gently on the water. The needle will turn until it points north-south!
4. Use a paper map or open a map app and determine which end of your needle points north.



Tip: Stay away from other magnets or metal, or your compass may point the wrong way.

## Treasure Map Adventure

Use your compass to make a map for a treasure hunt!

### **What You Need:**

- Your compass (homemade or store-bought)
- Paper and pencil
- A small prize or “treasure” to hide

### **What to Do:**

1. Pick a starting point.
2. Choose the first location. Write down the compass direction (like N, E, S, W) and count your steps to get there.
3. From that spot, choose another location and write down the direction and steps.
4. Repeat until you reach your treasure spot.
5. Give your map to a friend or family member and see if they can follow it!

### **Things to Remember:**

- Everyone’s steps are different sizes.
- Homemade compasses show main directions but may not be exact.