

Marvelous Magnets

Magnets are objects that have the ability to attract and repel certain materials. Magnets have two poles that are called the north pole and the south pole. The **poles** are areas near the opposite ends of a magnet where the magnetic force is the strongest.



Magnets are useful in lots of ways. They are used to stick things on other objects like letters on a refrigerator. Magnets are also used to store data in computers.



The force from the attractive pull or repulsive push of magnets can be used to help move objects from one place to another. For example, trains like the MAGLEV Train in China use magnets to “float” the train on top of its track. This super cool train is the fastest train in the world at 430 km/hr (270 miles/hr).



In this STEM Challenge, your task is to build a car that is powered only by the attractive pull or repulsive push of a pair of simple magnets. Can you get your car to move quickly down the road?