Magnet Through Stuff

KIDS HANDS-ON | RUN AT 11:15 | 25 MIN

The point

The **field** reaches right through solid things — cardboard, a book, water, even your own hand. The pull needs no touching and no air.

Materials

- Magnet + paper clip per child
- Piece of cardboard (~8×10 in)
- Paper plate · hardcover book
- Clear drinking glass, filled with water

Steps

1. Clip on TOP of the cardboard, magnet UNDERNEATH: **drive the clip around** like a race car.
2. Repeat through the paper plate (easy), then the hardcover book — **feel the pull weaken**.
3. The gasp: **through their own hand** — clip on the back, magnet under the palm.
4. **Water rescue:** drop the clip into the full glass; slide the magnet up the *outside* wall and **tow the clip out** — hands dry.
5. Rank together everything the field passed through today.

> *Say: "The field pours right through paper, glass, water, even YOU. Your hand can't feel it — but the clip can."*

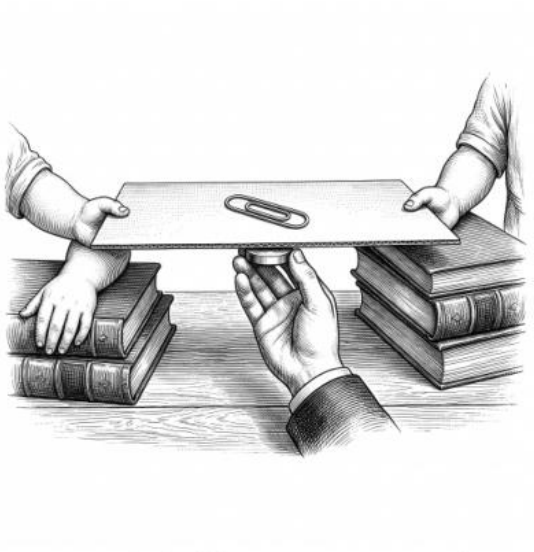


Fig. 4 — the clip follows a magnet it never touches

TEACHER PREP

Use the good magnet set — thin fridge magnets fail every step. Fill the glass just before the block; stage a towel.

SAFETY

Magnets nowhere near electronics. Discs counted out and back (swallow hazard). Slide, don't snap, when two kids' magnets meet through one sheet.

What to watch for

- Delight at the hand step — the field going through *me*
- Someone noticing the book is "harder" — that's distance, name it

EXPECTED RESULT

The pull works through everything tried; a thick book weakens it (**the field fades with distance** — same lesson as the chain). Nothing in the house blocks it.