

FREE BODY DIAGRAM

A BOX That represents ANY OBJECT where forces ARE APPLIED



① Weight

$$W = mg$$

DIRECTION is Down

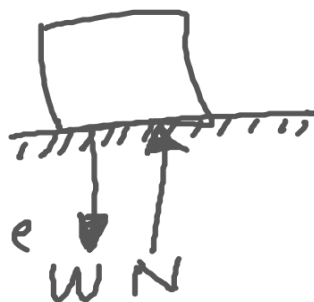


Weight

Everything
will have
weight

② NORMAL FORCE

- OPPOSE THE weight of the object
- DIRECTION IS OPPOSITE OF weight
- NORMAL FORCE IS Perpendicular to the SURFACE
- FORCE GROUND PUTS ON AN OBJECT



NORMAL FORCE DOES NOT ALWAYS EQUAL THE weight

