

KNOWLEDGE ORGANISER – YEAR 5 FORCES

	KEYWORDS and what they mean	
Forces make things: • begin to move • move faster • slow down • stop • change direction	Gravity – a non-contact force that pulls objects towards the centre of the Earth Friction – a force that acts between surfaces moving against each other Air resistance – a type of friction that acts when something moves through air Water resistance – a type of friction that acts when something moves through water	LEVERS A lever consists of an arm (bar), a fulcrum (pivot) and a load. The load is the thing the lever is trying to push and the force you put in is the effort force. Levers are force multipliers – you put a small force in and the force is magnified to act on the load.
FRICTION Friction acts to slow down moving things It can increase grip and wear things out e.g. tyres	A lever is a bar, resting on a pivot, used to apply a force e.g. seesaw, wheelbarrow A pulley is a rope system, used to lift a load e.g. crane, lift, sail-ship rigging Gears are rotating toothed wheels e.g. bicycle, car, clock	Scissors and tongs are a pair of levers