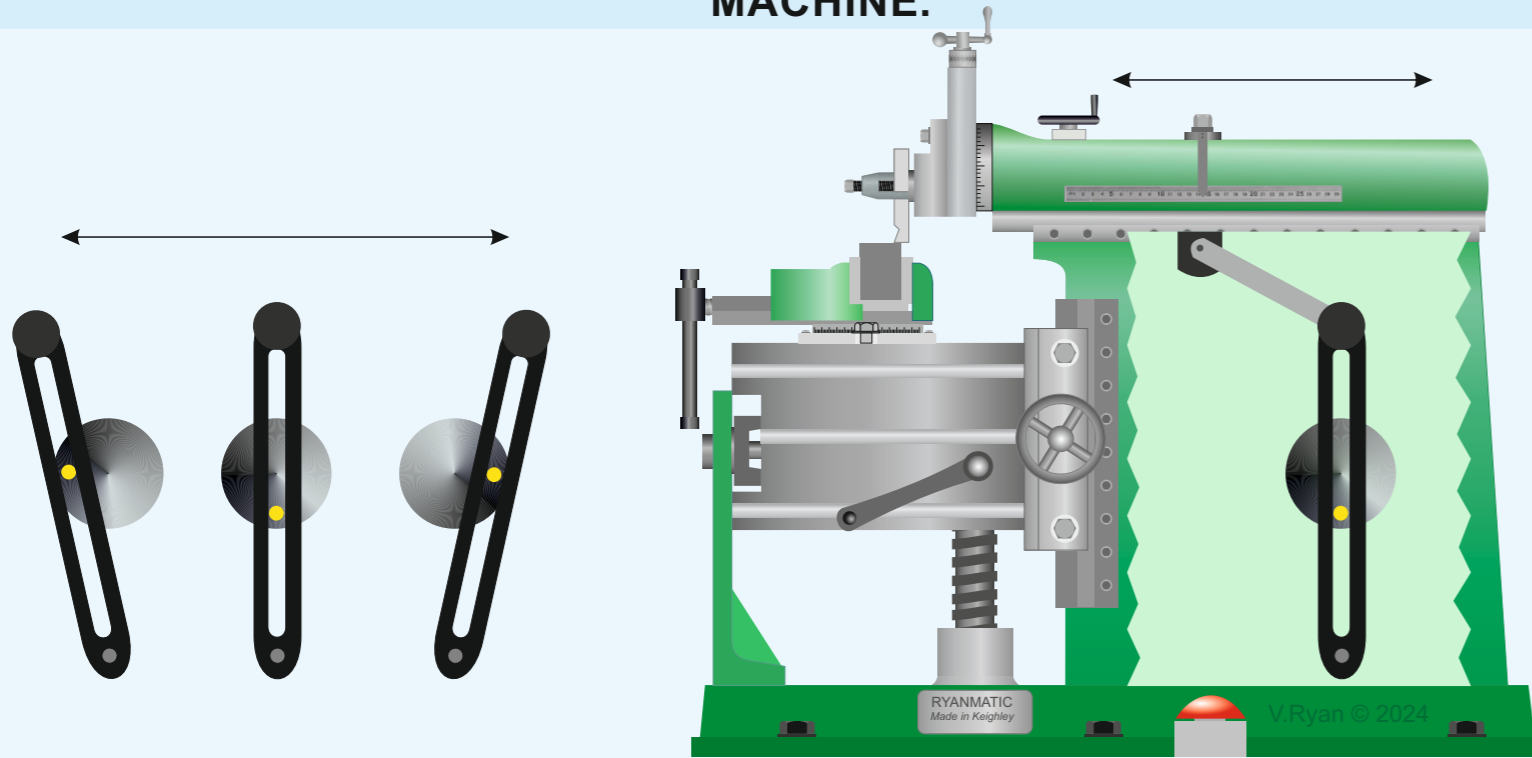


# COMMON MECHANISMS

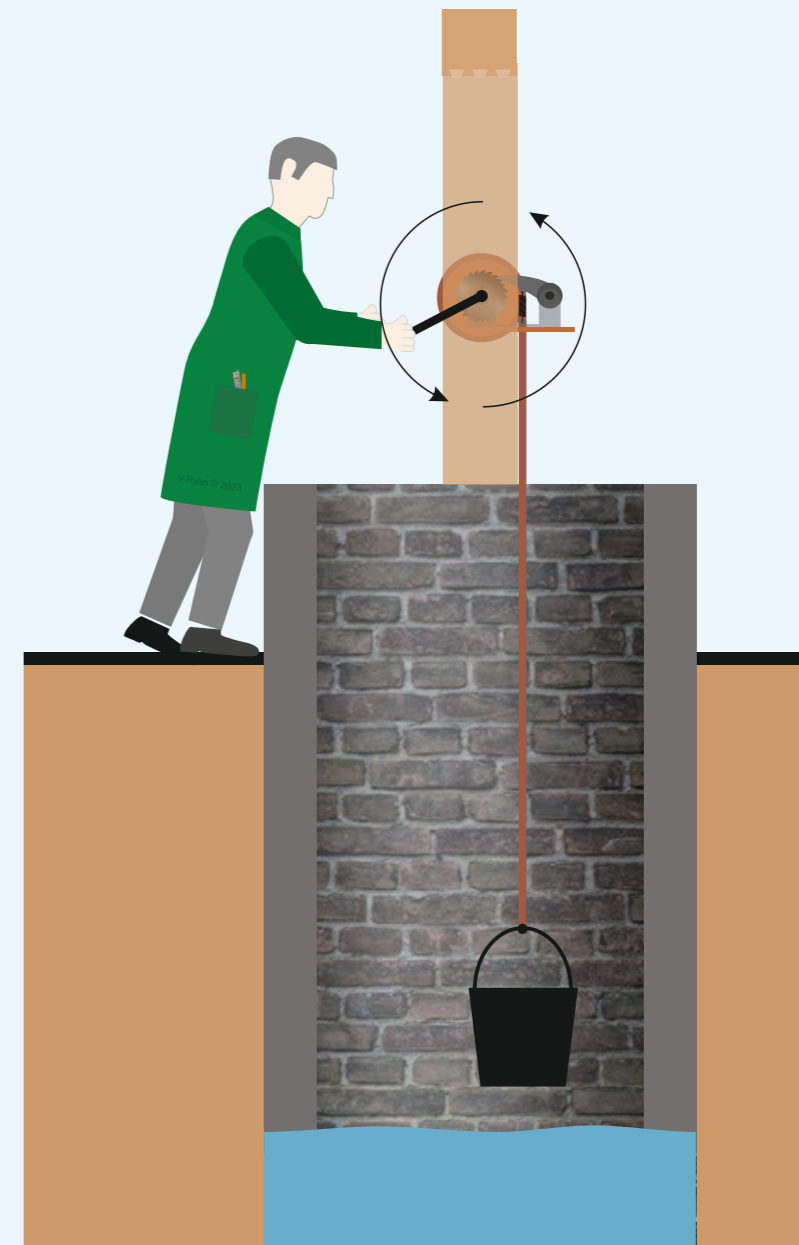
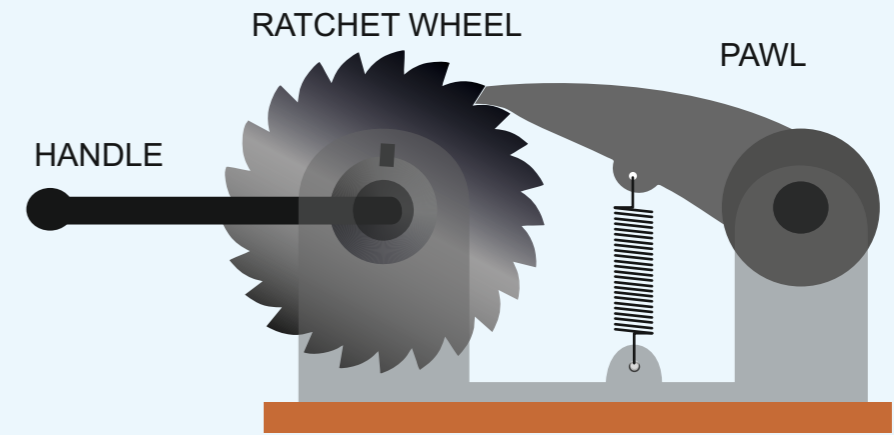
## QUICK RETURN MECHANISM

A QUICK RETURN MECHANISM CONVERTS ROTARY MOTION INTO RECIPROCATING MOTION. AS THE DISC ROTATES THE SLIDE MOVES FORWARDS AND BACKWARDS. THIS MECHANISM IS USED INSIDE A SHAPING MACHINE.



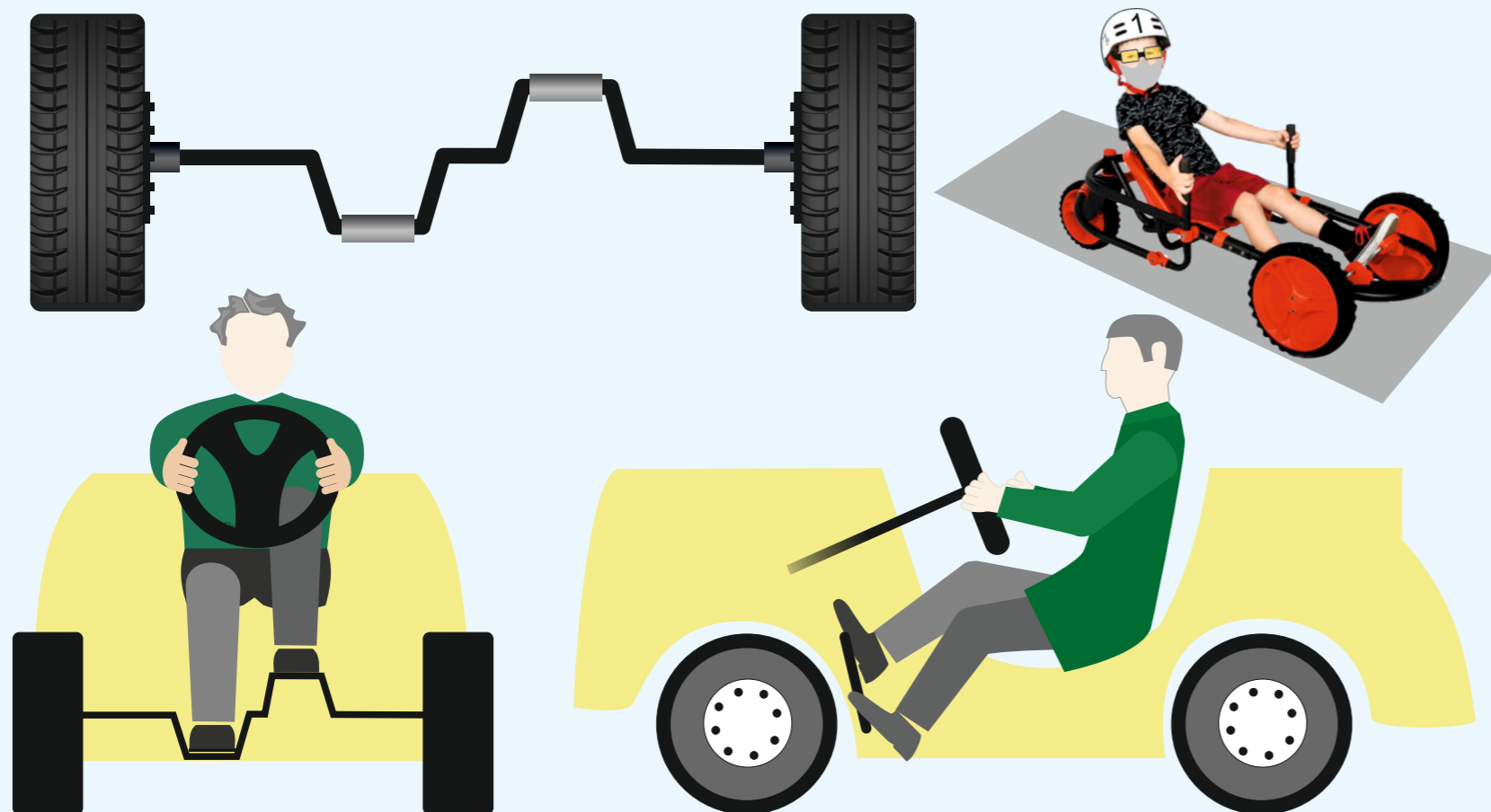
## RATCHET MECHANISM

A RATCHET MECHANISM IS A TOOTHED WHEEL AND A PAWL THAT FOLLOWS AS THE WHEEL TURNS. AS THE RATCHET WHEEL TURNS, THE PAWL FALLS INTO THE 'DIP' BETWEEN THE TEETH. THE RATCHET WHEEL CAN ONLY TURN IN ONE DIRECTION - IN THIS CASE ANTI-CLOCKWISE.



## CRANK SHAFT

A CRANK ACTS LIKE A LEVER, INCREASING MECHANICAL ADVANTAGE



USEFUL LINK



USEFUL LINK: <https://technologystudent.com/cams/camdex.htm>