

I'M AN EXPERT ON MACHINES AFTER LAST WEEK!

ACTUALLY, SCORPY, THERE'S ANOTHER TYPE OF MACHINES - **COMPOUND MACHINES.**

LEVER
INCLINED PLANE
SCREW
WEDGE
WHEEL + AXLE
PULLEY

LET'S SEE... A COMPOUND WORD IS MADE UP OF TWO SMALLER WORDS THAT FORM A LONGER WORD WITH A NEW MEANING.

COMPOUND MACHINES ARE MUCH THE SAME. A COMPOUND MACHINE IS A COMBINATION OF TWO OR MORE SIMPLE MACHINES.

MACHINES ARE SUCH A PART OF OUR EVERYDAY LIFE THAT WE SOMETIMES TAKE THEM FOR GRANTED ... AT LEAST UNTIL THE ELECTRICITY GOES OFF.

YEAH, THAT CAN MAKE LIFE HARDER FOR SURE.

1 SIMPLE MACHINE
+
1 SIMPLE MACHINE
= 1 COMPOUND MACHINE

LET'S TAKE A CLOSER LOOK AT COMPOUND MACHINES TO SEE HOW THEY AFFECT OUR LIFE.

TALK ABOUT YOUR NEW MATH!!!!

I'M ALMOST DONE HERE,
THEN WE CAN EXPLORE
COMPOUND MACHINES.

ACTUALLY, SCORPY,
YOU ARE USING A
COMPOUND MACHINE
RIGHT NOW!

BUT THESE ARE
JUST PLAIN OLD
SCISSORS.

LET'S TAKE A CLOSER
LOOK. SCISSORS ARE A
COMBINATION OF A **WEDGE**
AND A **LEVER**. SCISSORS
ARE USED TO HELP US
CUT OUT THINGS FROM
DIFFERENT MATERIAL,
SUCH AS PAPER OR CLOTH.
THE TWO PARTS WORK
TOGETHER TO CUT.

THE WEDGE
IS THE
EDGE!

WEDGE

LEVER

HUH - I NEVER KNEW
SCISSORS WERE MACHINES!

SCISSORS ARE JUST ONE
EXAMPLE OF COMPOUND
MACHINES. WE CAN
EXPLORE MORE COMPOUND
MACHINES TOMORROW.

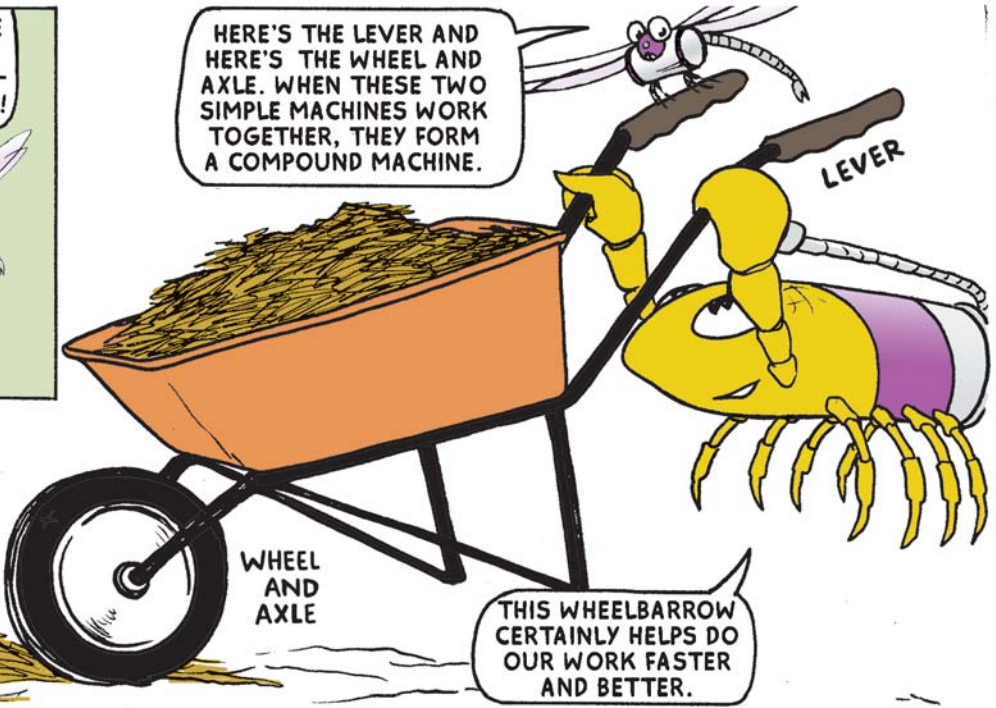
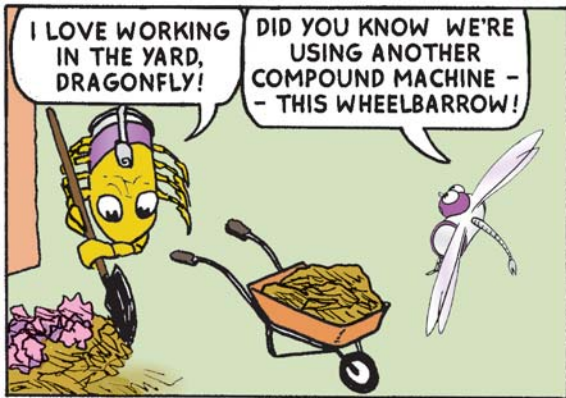
ALL THESE COMPOUND MACHINES
ARE ON THE CUTTING EDGE!

I LOVE WORKING IN THE YARD, DRAGONFLY!

DID YOU KNOW WE'RE USING ANOTHER COMPOUND MACHINE - THIS WHEELBARROW!

HERE'S THE LEVER AND HERE'S THE WHEEL AND AXLE. WHEN THESE TWO SIMPLE MACHINES WORK TOGETHER, THEY FORM A COMPOUND MACHINE.

THIS WHEELBARROW CERTAINLY HELPS DO OUR WORK FASTER AND BETTER.

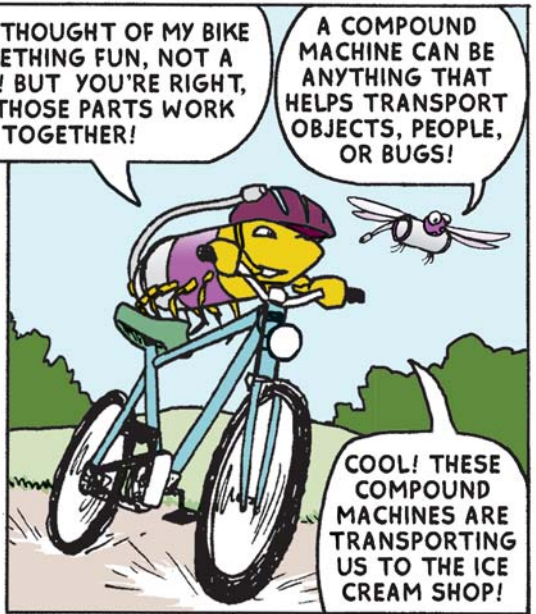
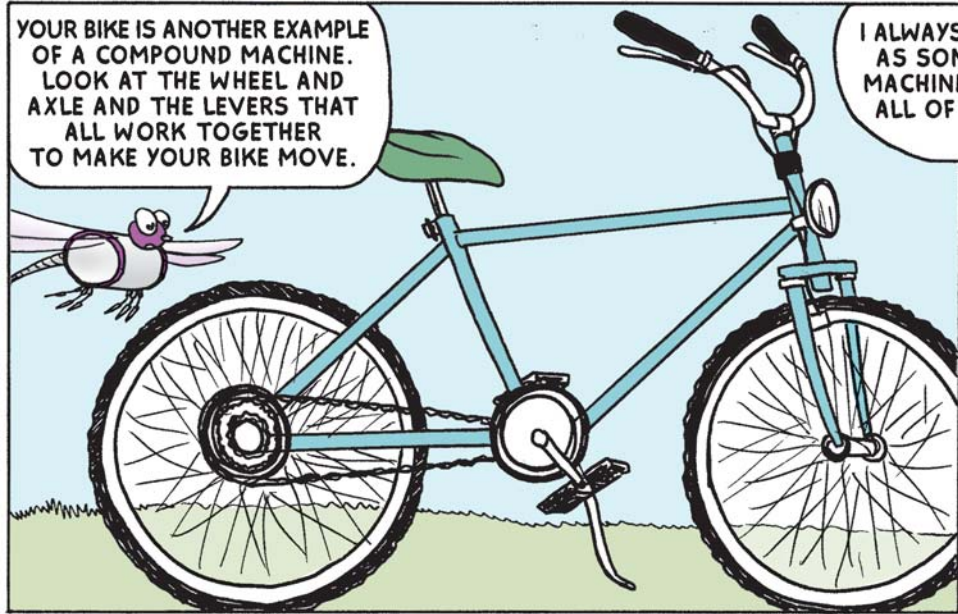


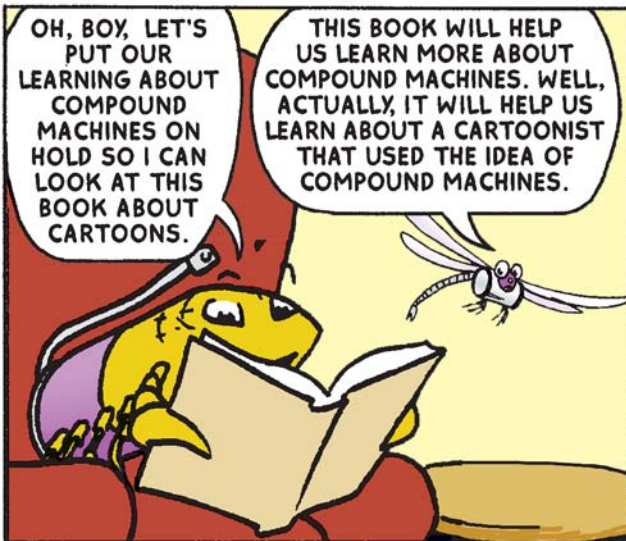
YOUR BIKE IS ANOTHER EXAMPLE OF A COMPOUND MACHINE. LOOK AT THE WHEEL AND AXLE AND THE LEVERS THAT ALL WORK TOGETHER TO MAKE YOUR BIKE MOVE.

I ALWAYS THOUGHT OF MY BIKE AS SOMETHING FUN, NOT A MACHINE! BUT YOU'RE RIGHT, ALL OF THOSE PARTS WORK TOGETHER!

A COMPOUND MACHINE CAN BE ANYTHING THAT HELPS TRANSPORT OBJECTS, PEOPLE, OR BUGS!

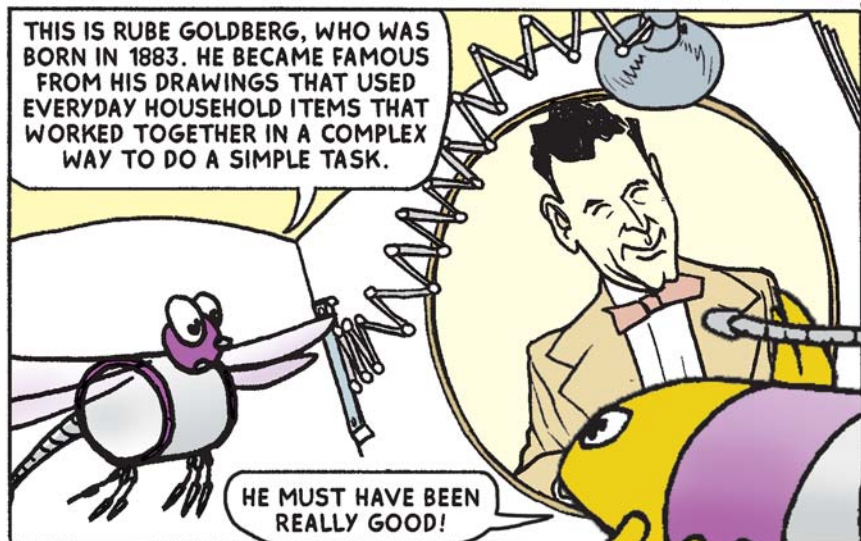
COOL! THESE COMPOUND MACHINES ARE TRANSPORTING US TO THE ICE CREAM SHOP!





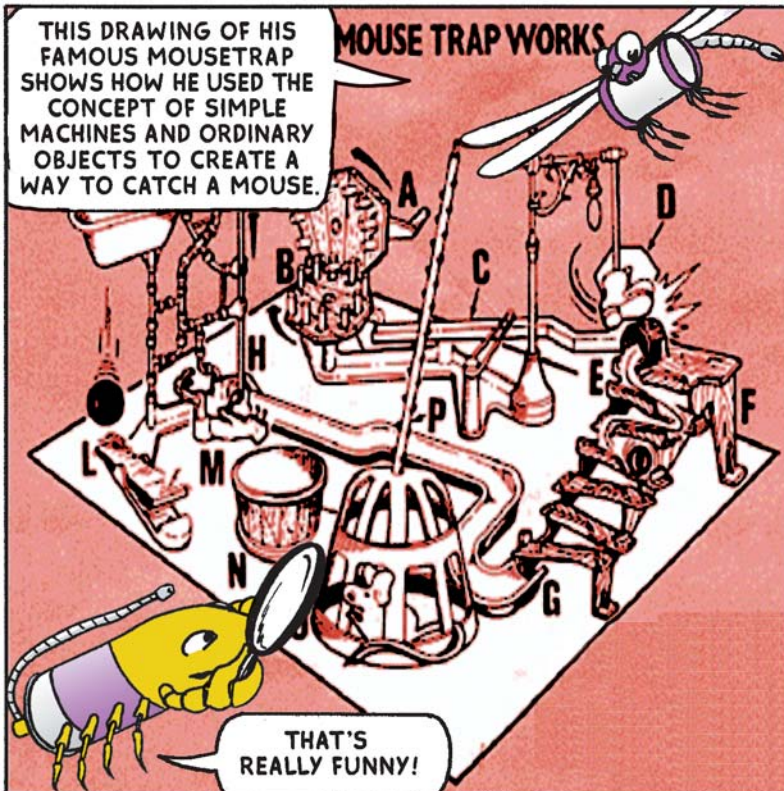
OH, BOY, LET'S PUT OUR LEARNING ABOUT COMPOUND MACHINES ON HOLD SO I CAN LOOK AT THIS BOOK ABOUT CARTOONS.

THIS BOOK WILL HELP US LEARN MORE ABOUT COMPOUND MACHINES. WELL, ACTUALLY, IT WILL HELP US LEARN ABOUT A CARTOONIST THAT USED THE IDEA OF COMPOUND MACHINES.



THIS IS RUBE GOLDBERG, WHO WAS BORN IN 1883. HE BECAME FAMOUS FROM HIS DRAWINGS THAT USED EVERYDAY HOUSEHOLD ITEMS THAT WORKED TOGETHER IN A COMPLEX WAY TO DO A SIMPLE TASK.

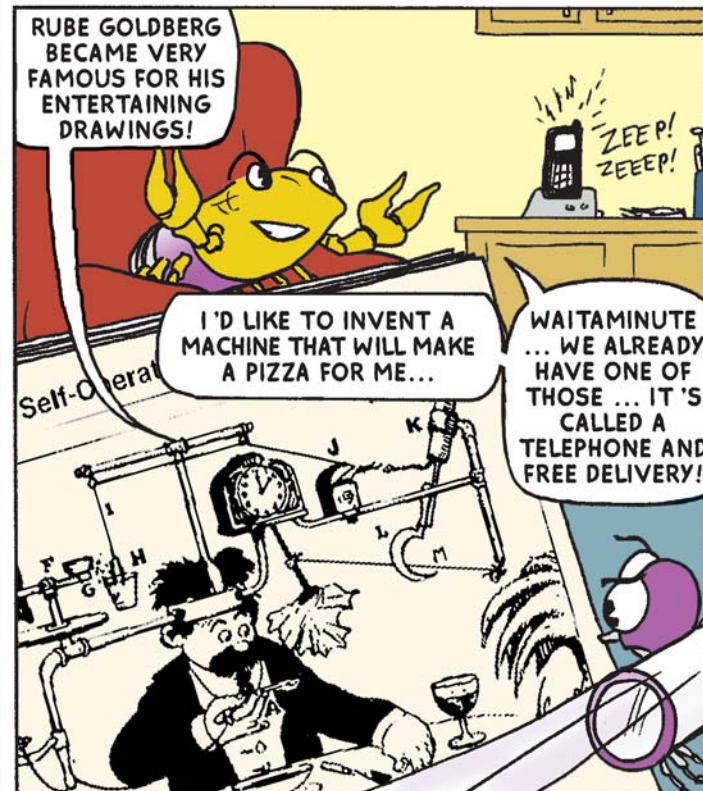
HE MUST HAVE BEEN REALLY GOOD!



MOUSE TRAP WORKS

THIS DRAWING OF HIS FAMOUS MOUSETRAP SHOWS HOW HE USED THE CONCEPT OF SIMPLE MACHINES AND ORDINARY OBJECTS TO CREATE A WAY TO CATCH A MOUSE.

THAT'S REALLY FUNNY!



RUBE GOLDBERG BECAME VERY FAMOUS FOR HIS ENTERTAINING DRAWINGS!

I'D LIKE TO INVENT A MACHINE THAT WILL MAKE A PIZZA FOR ME...

WAITAMINUTE ... WE ALREADY HAVE ONE OF THOSE ... IT'S CALLED A TELEPHONE AND FREE DELIVERY!

REMEMBER, SCORPY, THAT THE SIX SIMPLE MACHINES ARE: LEVER, PULLEY, WHEEL AND AXLE, INCLINED PLANE, AND SCREW.

I REMEMBER THOSE. AND NOW I KNOW THAT A COMPOUND MACHINE IS A COMBINATION OF TWO OR MORE SIMPLE MACHINES.

SIMPLE MACHINES
LEVER
INCLINED PLANE
WEDGE
SCREW
WHEEL & AXLE
PULLEY

OK, LET'S SEE IF YOU CAN TELL WHAT IS A SIMPLE MACHINE AND WHAT IS A COMPOUND MACHINE.

BOTTLE OPENER

SIMPLE

FLAG PULLEY

SIMPLE

SIMPLE
RAKE

AX

COMPOUND

CRANE

COMPOUND

DOOR KNOB

SEE HOW MOST MACHINES ARE REALLY COMPOUND MACHINES.

WE SURE HAVE A LOT OF TOOLS FOR SUCCESS!