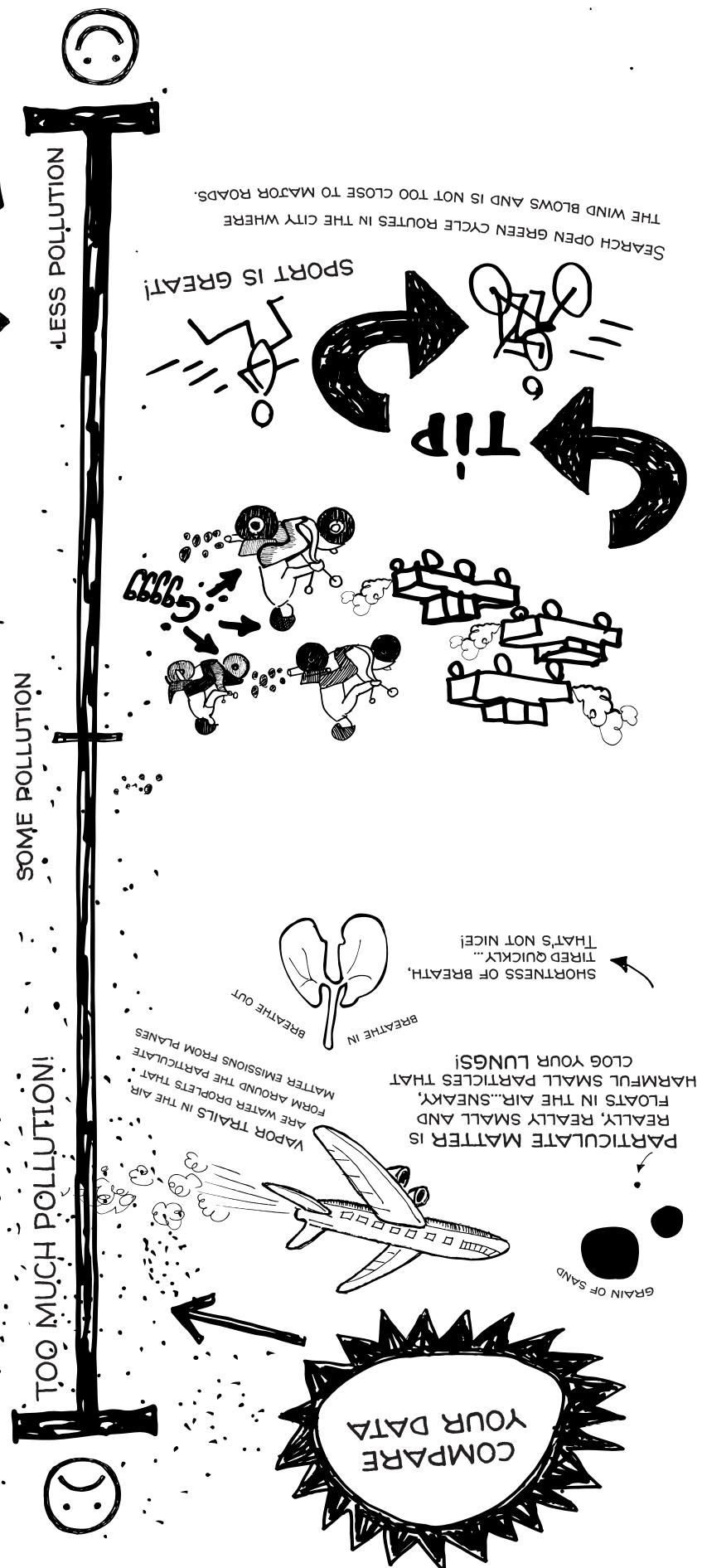


HOW MUCH

POLLUTION

IS FLOATING
AROUND? ☁

COMPARE-O-METER



PARTICULATE MATTER!!

LET'S EXAMINE HOW MUCH PARTICULATE MATTER IS IN THE AIR.



THESE ARE TINY PARTICLES FLOATING IN THE AIR. WE DO NOT SEE THEM, BUT BREATHE THEM EVERY DAY. FINE DUST! THIS IS BAD FOR OUR LUNGS. WE CAN MEASURE THE PARTICLE WITH A HOMEMADE PARTICULATE METER.

HOW DOES IT WORK?



YOU START BY MAKING THE MEASURING INSTRUMENT.

Step 1.

THEN IT'S TIME TO DO RESEARCH AND DO EXPERIMENTS. REMEMBER TO THINK ABOUT WHAT EXACTLY YOU WANT TO INVESTIGATE

WANT TO FIND OUT FOR EXAMPLE WHAT THE HEALTHIEST ROUTE IS TO GO TO SCHOOL? THEN PLACE YOUR PARTICULATES METERS AT VARIOUS PLACES ALONG THE ROUTE.

CHECK THE COMPARE-O-METER TO FIND MORE FACTS

Step 2.

AFTER ONE OR TWO DAYS COLLECT ALL THE METERS, SO YOU CAN FIND OUT WHERE THE MOST PARTICULATE MATTER FLOATING IN THE AIR IS. AND THEN CHOOSE A DIFFERENT PATH!

- * YOU'LL NEED: THE WORKSHEET
- IT EXPLAINS HOW YOU CAN GO OUT WITH THE HOMEMADE GAUGES TO COLLECT MEASUREMENTS (DATA)

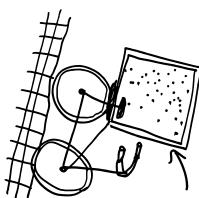
Step 3.

EVERYTHING STARTS WITH THE QUESTION:
WHAT DO YOU WANT TO MEASURE? YOU
SHOULD HAVE ALREADY THOUGHT ABOUT THIS.
NICE! NOW YOU CAN GET TO WORK!



#freshAir ↑

YOU SEE IT WHEN YOU
SWEEP YOUR HAND ON THE
WINDOW OUTSIDE...
A LOT OF FINE DUST!



SMOG

CHECK IT WITH THE COMPARE-O-METER, THEN YOU
CAN COMPARE YOUR MEASUREMENTS TO OTHERS.
YOU'LL ALSO FIND LOTS OF FACTS HERE.

Discover how healthy your area is and what you can do to improve it!

WE DO NOT SEE THEM BUT THEY BREATHE EVERY DAY: FINE DUST! THAT IS BAD FOR YOUR LUNGS. BY KNOWING WHERE THERE IS A LOT OF FINE DUST IN THE AIR,, WE CAN CHOOSE HEALTHIER CYCLING AND WALKING ROUTES

CREATE YOUR OWN PARTICULATES METER: WITH A PIECE MILK CARTON AND VASELINE

... OF COURSE.

WHAT YOU'LL NEED

- - - - -
|
| EMPTY CARTON OF MILK
| VASELINE
| DOUBLE-SIDED TAPE
| SCISSORS
| RULER

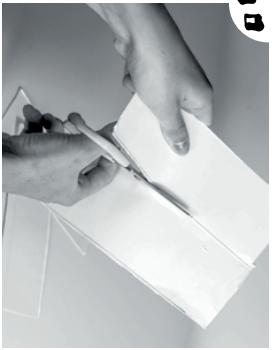
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1.



CUT THE TOP AND BOTTOM OF THE MILK CARTON OFF.

2.



CUT OFF THE SIDES ALONG THE FOLDS SO THAT YOU GET LONG STRIPS

3.



MEASURE THE LENGTH OF EACH STRIP AND CUT EACH ONE TO THE SAME SIZE ALONG THE CREESES.

STICK DOUBLE-SIDED TAPE TO THE PRINTED SIDE OF THE CARTON STRIP.

4.



NOW CAREFULLY REMOVE THE SKIN OF THE DOUBLE-SIDED TAPE OFF.

5.



PASTE YOUR PARTICULATES METER ON THE SPOT WHERE YOU WANT TO MEASURE AND WAIT A FEW DAYS.

6.



LOOK HOW DARK SPOTS APPEAR ON YOUR METER. THE MORE DOTS, THE MORE PARTICULATE MATTER, IN THE AIR!

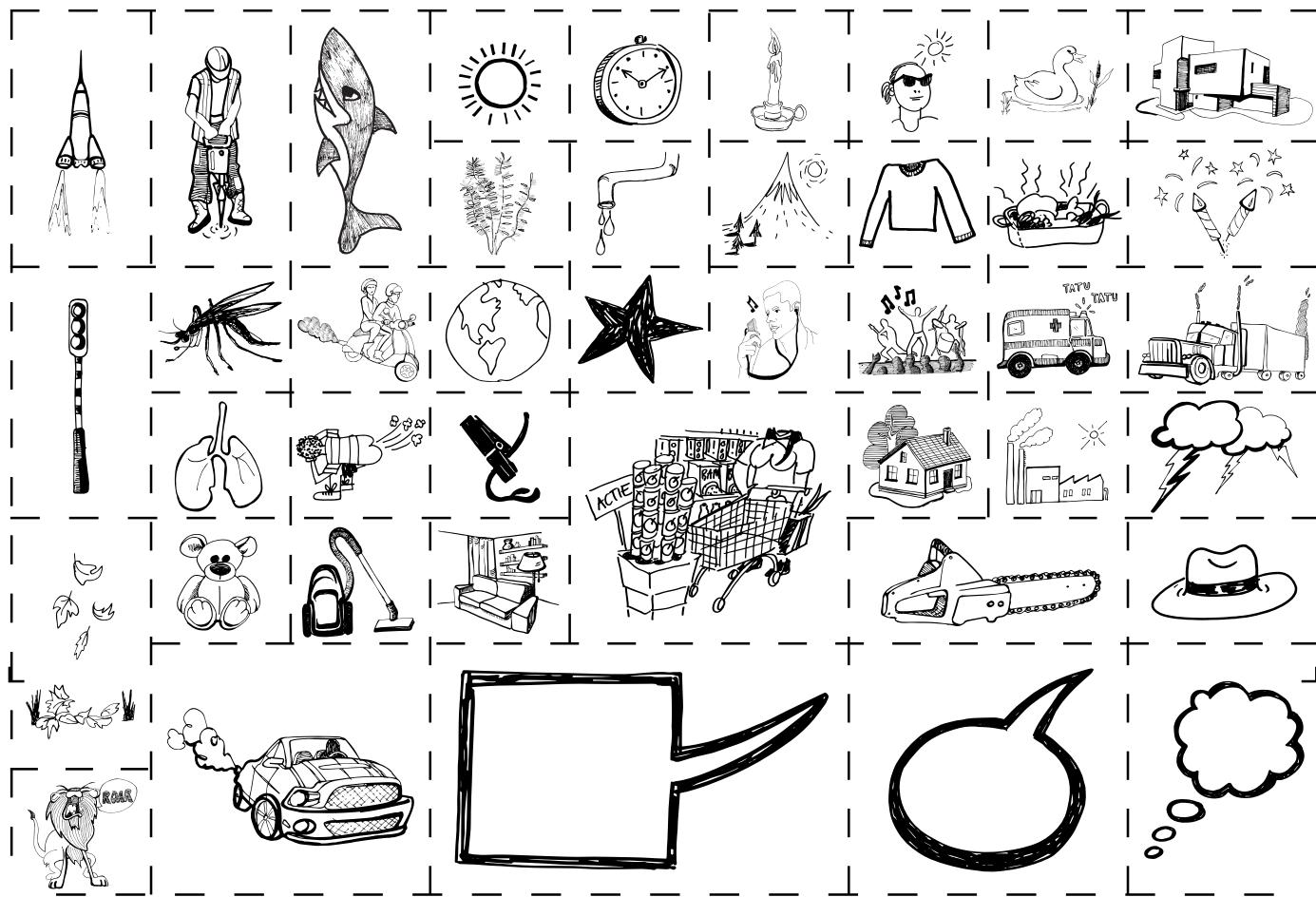
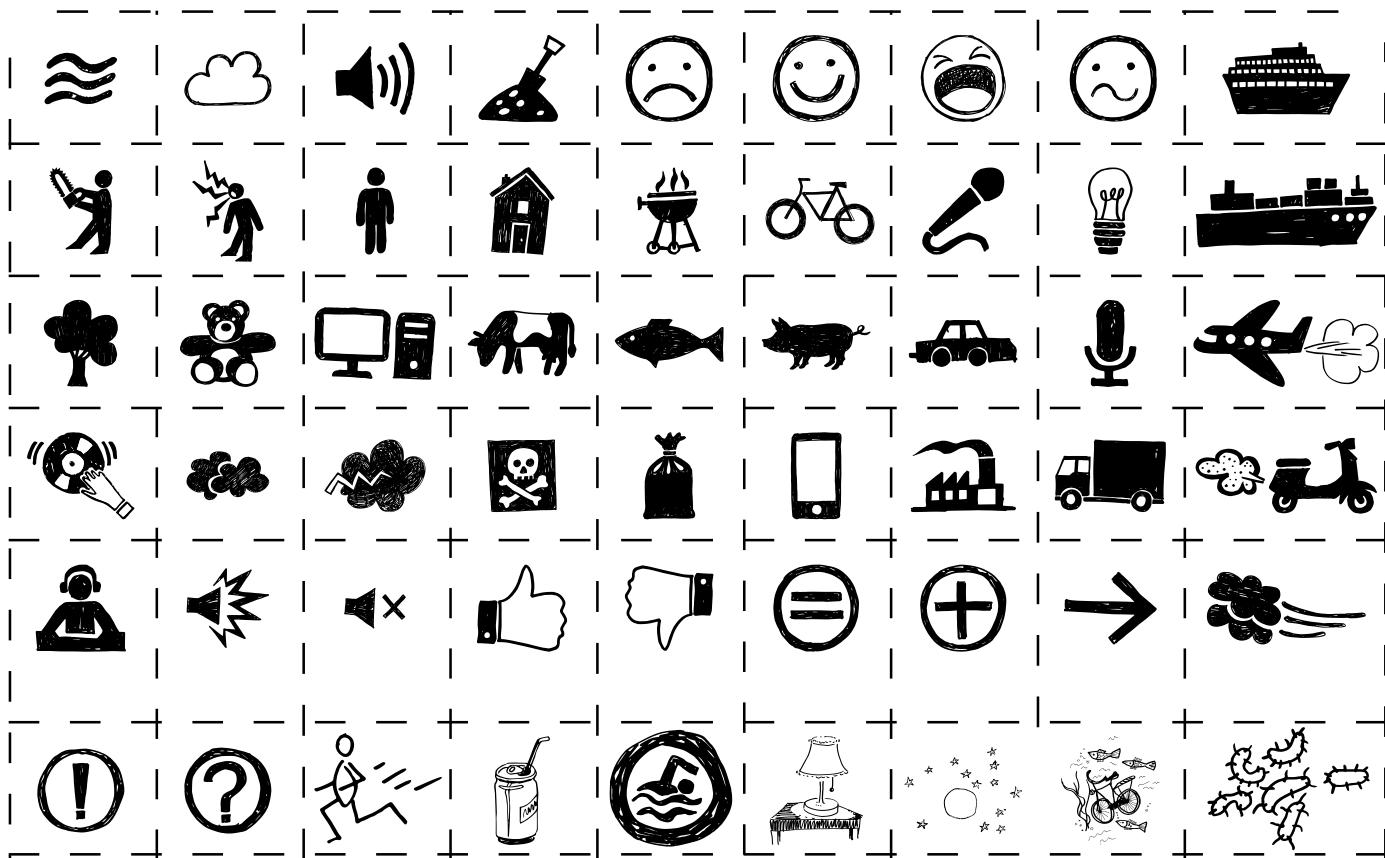
7.



TIP Measure a busy street or intersection and a park to see the difference.



USE THESE DRAWINGS IN THE "DO EXPERIMENTS" SECTION OF
YOUR WORKSHEETS TO MAKE YOUR RESEARCH EVEN BETTER!



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