

**ACTIVITY**  
**BOOK**  
**FOR**  
**KIDS**  
**EDITION 4**  
**SUSTAINABILITY**



*Brought to you by*

The power behind **your mission**

**Johnson**  
**Controls**





\*SIGH\*  
I CAN'T BELIEVE  
HOW MANY PLASTIC BAGS  
AND BOTTLES THERE ARE  
EVERYWHERE!...



...DON'T  
PEOPLE KNOW HOW  
TO USE THE GARBAGE  
BINS?

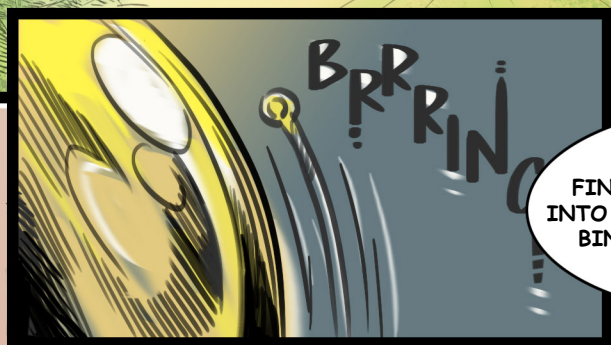
I KNOW!  
THIS IS  
GROSS!

MY MOM  
TAUGHT ME TO  
STOP USING PLASTIC  
BAGS, BECAUSE THEY  
ARE NOT GOOD  
FOR THE  
ENVIRONMENT.

INSTEAD,  
WE USE CLOTH BAGS.  
WE ALSO USE RE-USABLE  
GLASS CONTAINERS INSTEAD  
OF PLASTIC CONTAINERS.  
THEN WE HAVE LESS  
TRASH.

WOW!  
THAT'S REALLY  
SMART.

THEN THERE  
WOULD BE LESS  
OF THIS  
EVERYWHERE!

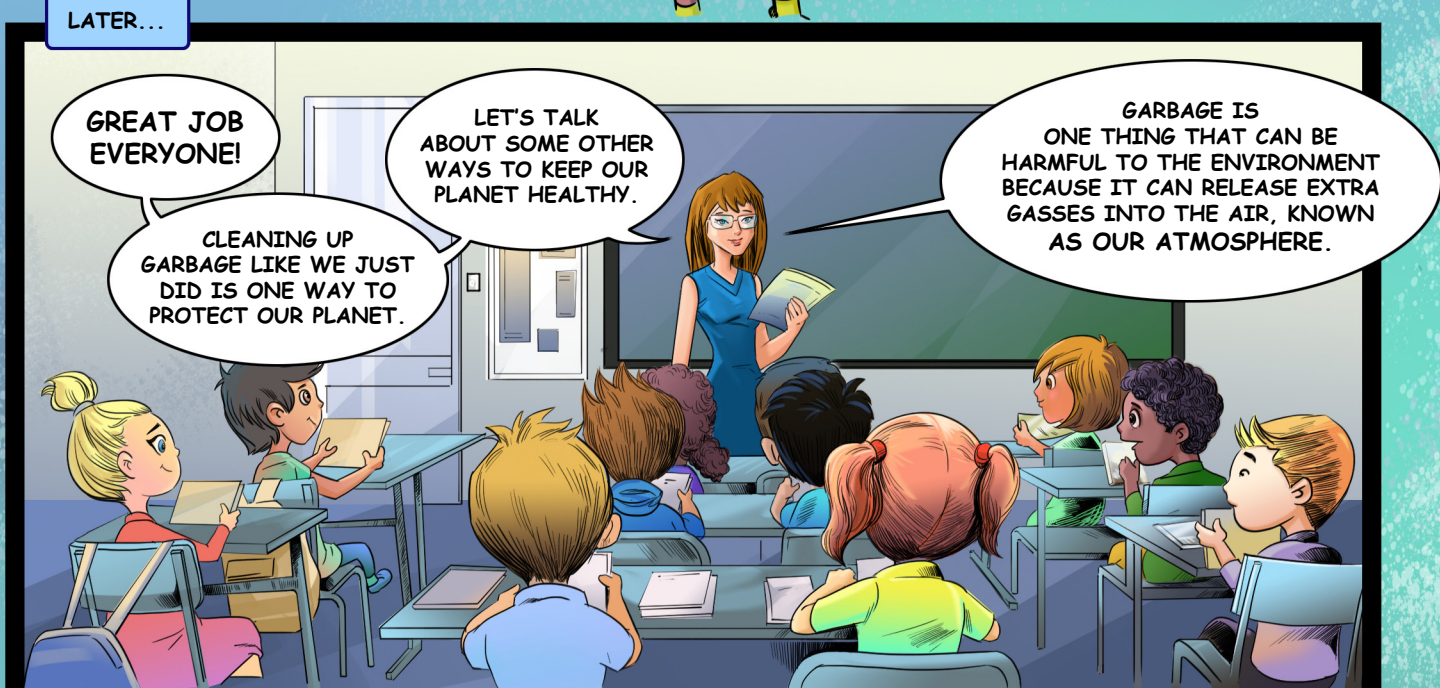
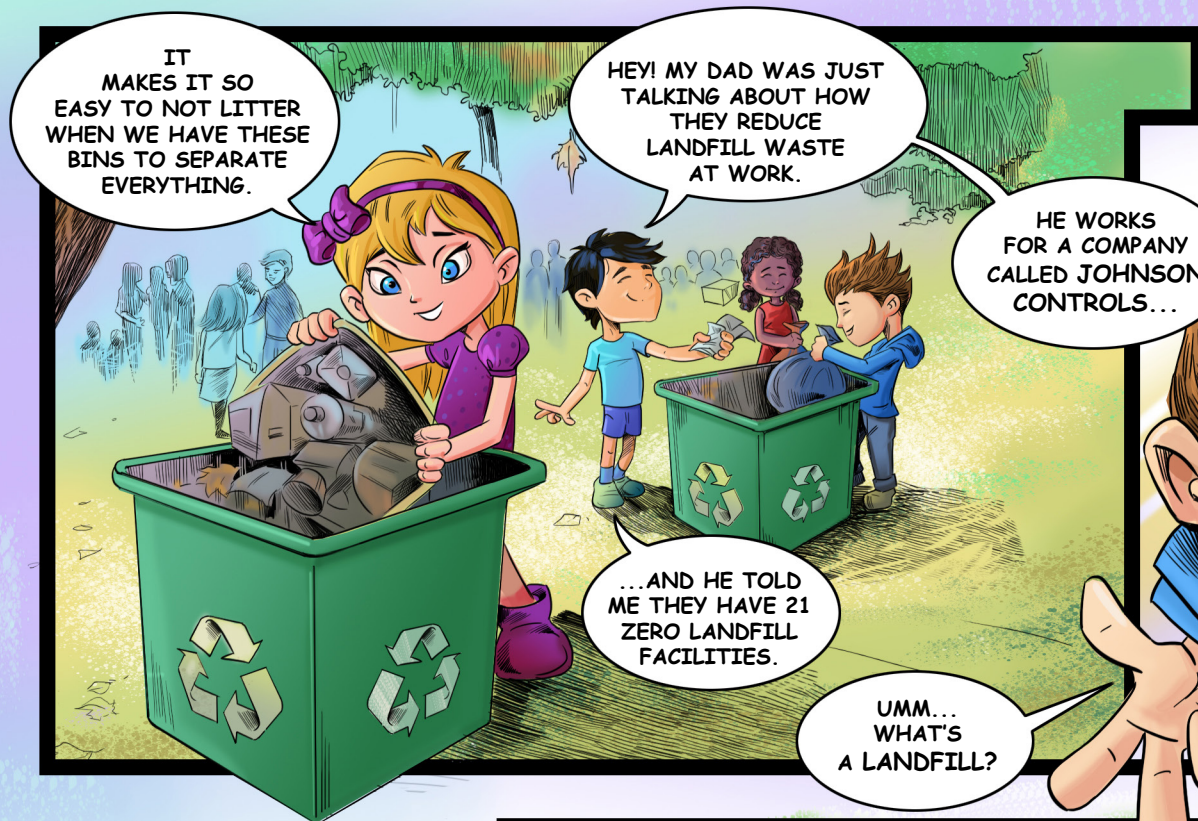


ALRIGHT KIDS!  
FINISH PUTTING THE TRASH  
INTO THE GARBAGE AND RECYCLE  
BINS AND THEN HEAD BACK  
TO CLASS.

THANKS  
FOR ALL OF YOUR  
HARD WORK!











OUR EARTH IS SURROUNDED BY AN ATMOSPHERE MADE UP OF GASES.



WHEN SUNLIGHT ENTERS OUR ATMOSPHERE, SOME OF THE SUN'S HEAT IS TRAPPED BY THE GAS, AND SOME BOUNCES BACK OUT INTO SPACE.

THE GASES THAT TRAP THE HEAT ARE CALLED GREENHOUSE GASES.



### GREENHOUSE GASES -

THESE ARE GASES IN EARTH'S ATMOSPHERE THAT TRAP HEAT. THEY LET SUNLIGHT PASS THROUGH THE ATMOSPHERE, BUT THEY PREVENT THE HEAT THAT THE SUNLIGHT BRINGS FROM LEAVING THE ATMOSPHERE.

**EXAMPLES** - WATER VAPOR, CARBON DIOXIDE, METHANE, OZONE.

CARBON DIOXIDE (CO<sub>2</sub>) IS THE MOST COMMON GREENHOUSE GAS. CO<sub>2</sub> TRAPS HEAT IN THE ATMOSPHERE.



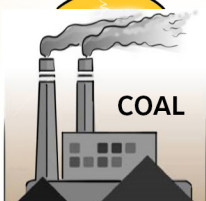
MUCH OF THIS CO<sub>2</sub> COMES FROM THE USE OF NON-RENEWABLE RESOURCES LIKE OIL, GAS AND COAL TO POWER HOMES, CARS AND FACTORIES.



OIL

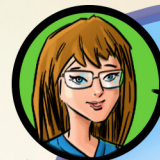


**NON-RENEWABLE ENERGY SOURCES**  
ONCE WE USE OR BURN THESE RESOURCES, THEY ARE GONE FOREVER.



COAL

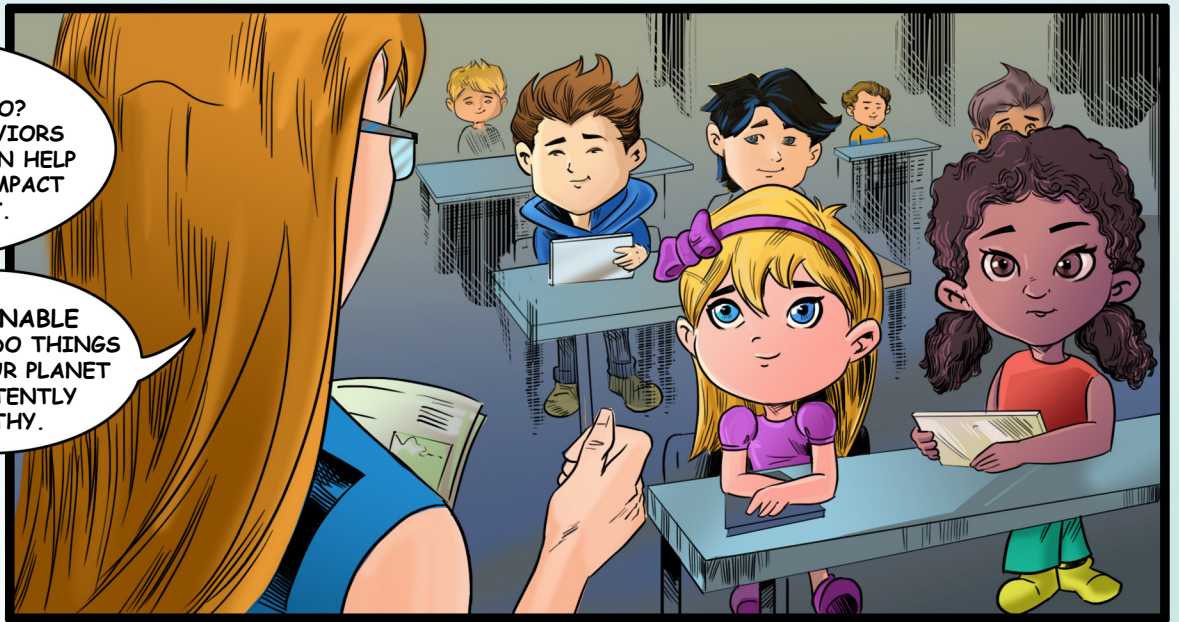
THESE TRAPPED GASES CAN INCREASE EARTH'S TEMPERATURE.



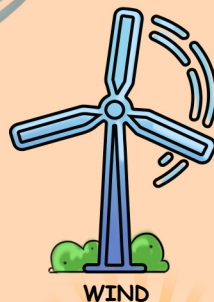


SO...  
WHAT CAN WE DO?  
SUSTAINABLE BEHAVIORS  
ARE ONE WAY WE CAN HELP  
MAKE A POSITIVE IMPACT  
ON OUR PLANET.

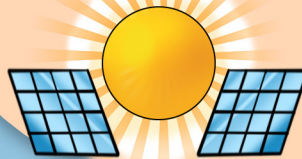
SUSTAINABLE  
MEANS TO DO THINGS  
TO KEEP OUR PLANET  
CONSISTENTLY  
HEALTHY.



WE NEED TO BE MORE  
AWARE OF THE BENEFITS OF  
RENEWABLE ENERGY SOURCES,  
LIKE WIND ENERGY POWERED  
BY WINDMILLS, SOLAR ENERGY  
FROM THE SUN TRAPPED  
BY SOLAR PANELS AND OTHER  
TYPES OF ENERGY SOURCES.



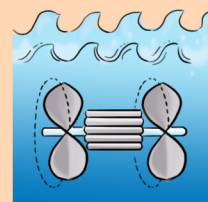
WIND



SOLAR

### RENEWABLE ENERGY SOURCES

THESE RESOURCES ALMOST  
NEVER RUN OUT AND CAN  
BE USED REPEATEDLY AND  
REPLACED NATURALLY.



HYDROPOWER



GEOTHERMAL



BIOMASS

ANOTHER STEP IS TO  
REDUCE EMISSIONS,  
SUCH AS CARBON DIOXIDE  
AND OTHER GREENHOUSE  
GASES.

CO<sub>2</sub>



WHEN IT COMES TO VEHICLES,  
YOU CAN CARPOOL. CARPOOLING IS  
WHEN SOME PEOPLE FROM THE SAME  
NEIGHBORHOOD DECIDE TO ALL RIDE IN  
ONE CAR TOGETHER TO A COMMON  
DESTINATION, INSTEAD OF EACH ONE  
TAKING A SEPARATE CAR.



ALSO, IF POSSIBLE,  
USE MORE FUEL  
EFFICIENT CARS,  
FOR EXAMPLE, CARS THAT  
RUN ON ELECTRICITY,  
NOT GAS.



YOU CAN HELP TOO!  
YOU CAN ALSO RIDE  
YOUR BIKE, TAKE THE BUS  
OR TRAIN, OR WALK TO  
YOUR FRIEND'S HOUSE.



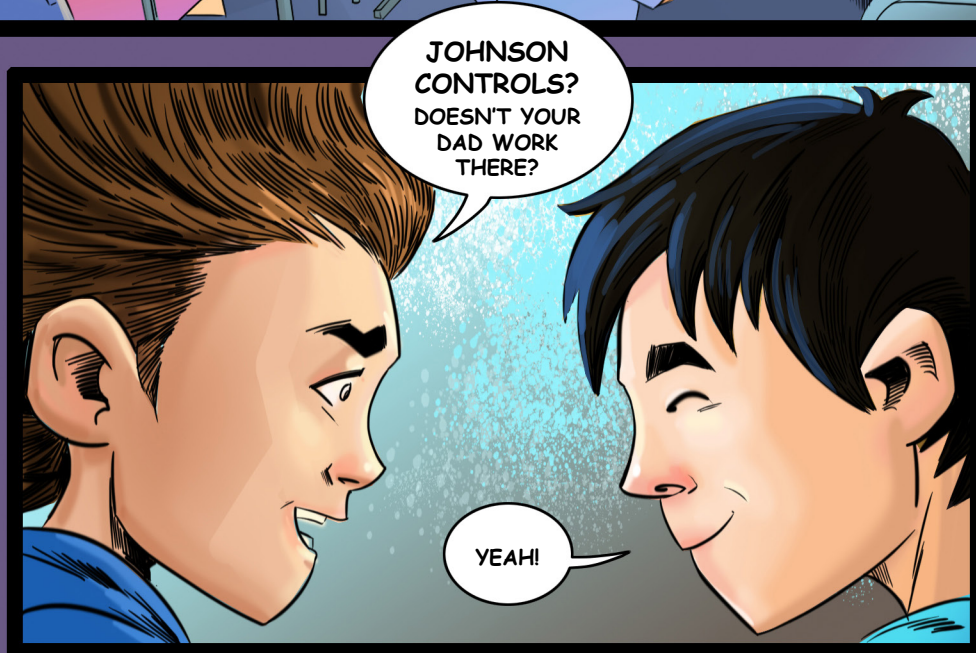




WE HAVE  
AN EXCITING  
GUEST WITH US  
TODAY.

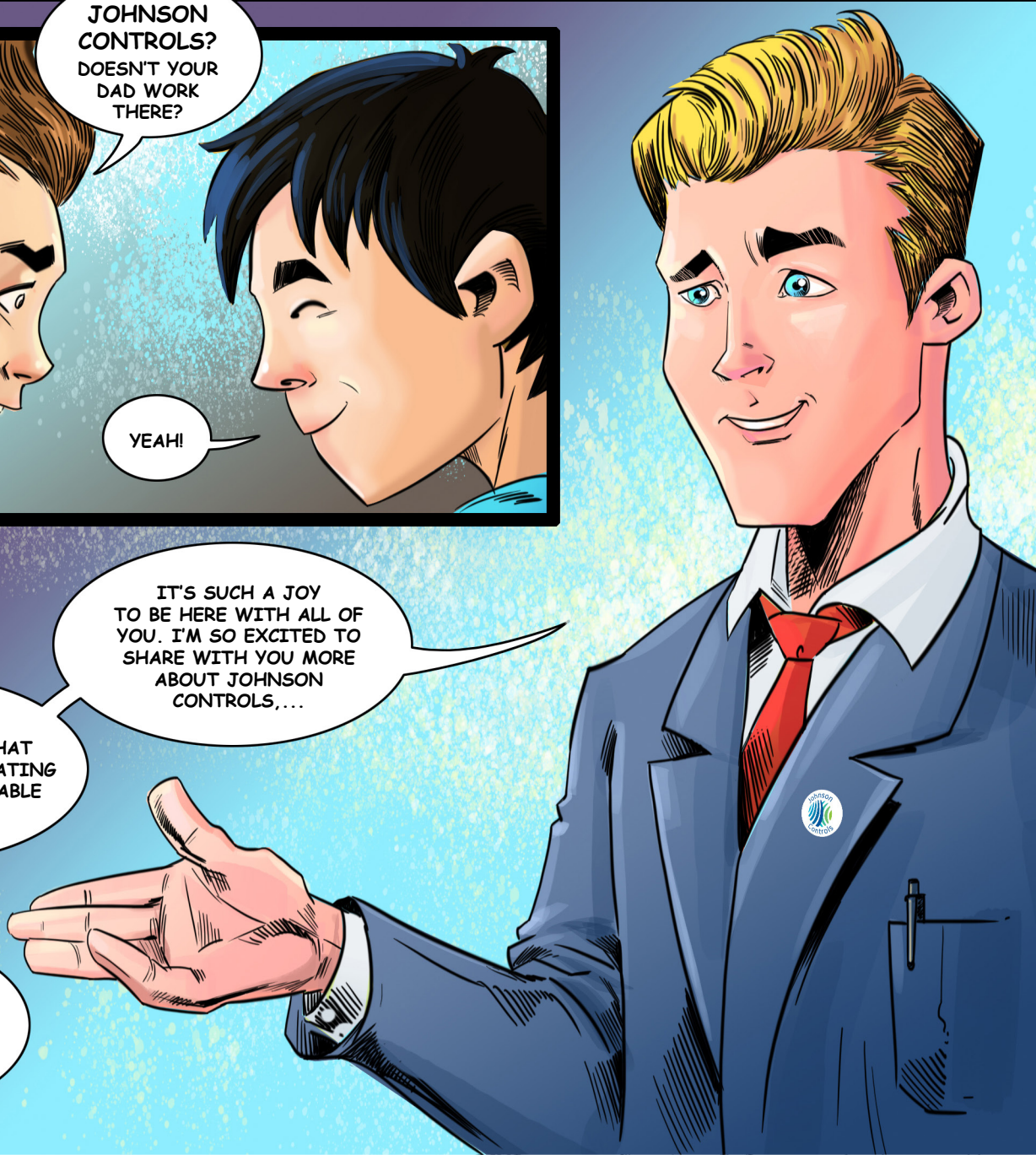
PLEASE  
WELCOME MR. GREEN.  
HE IS A TECHNICIAN FROM  
AN ENGINEERING COMPANY  
CALLED JOHNSON  
CONTROLS.

HELLO  
EVERYONE!



JOHNSON  
CONTROLS?  
DOESN'T YOUR  
DAD WORK  
THERE?

YEAH!



IT'S SUCH A JOY  
TO BE HERE WITH ALL OF  
YOU. I'M SO EXCITED TO  
SHARE WITH YOU MORE  
ABOUT JOHNSON  
CONTROLS,...

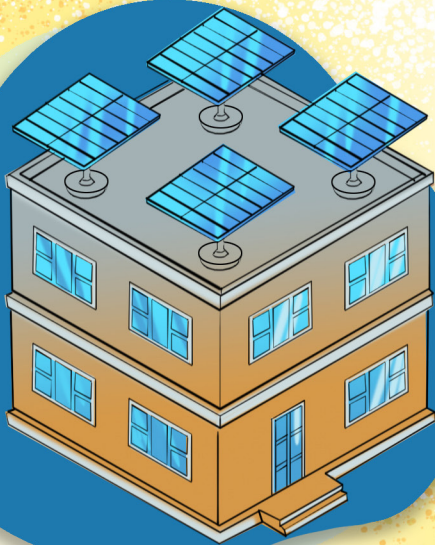
...A WORLD  
FAMOUS COMPANY THAT  
IS COMMITTED TO CREATING  
A HEALTHY, SUSTAINABLE  
WORLD...

...WHICH LEADS  
TO HEALTHY PEOPLE,  
HEALTHY PLACES,  
AND A HEALTHY  
PLANET.



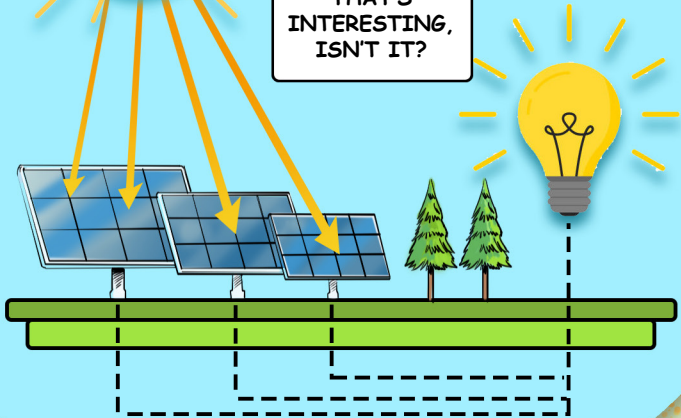


DID YOU KNOW THAT YOUR SCHOOL IS EQUIPPED WITH JOHNSON CONTROLS TECHNOLOGY WHICH HELPS THE ENVIRONMENT?



ON THE ROOF OF YOUR SCHOOL THERE ARE SOLAR PANELS THAT DRAW THE SUN'S ENERGY TO POWER ALL THE ELECTRICAL EQUIPMENT IN THE SCHOOL.

THAT'S INTERESTING, ISN'T IT?



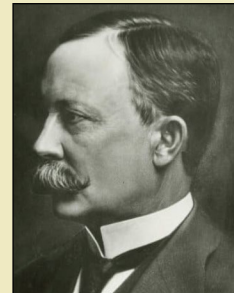
THAT IS A JOHNSON CONTROLS THERMOSTAT. THERE ARE LOTS OF THESE THROUGHOUT YOUR SCHOOL.

A THERMOSTAT IS A DEVICE THAT AUTOMATICALLY CONTROLS THE TEMPERATURE IN A ROOM.

IT HELPS KEEP YOU COMFORTABLE AND PRODUCTIVE. THAT WAY, YOU AND THE TEACHERS HERE CAN FOCUS ON YOUR EDUCATION.

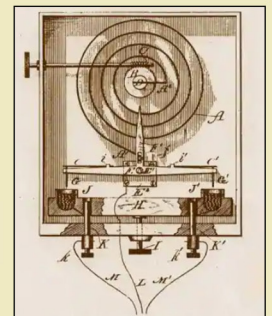
#### FUN FACT:

WARREN JOHNSON, THE FOUNDER OF JOHNSON CONTROLS, INVENTED THE WORLD'S FIRST THERMOSTAT THAT COULD CONTROL THE TEMPERATURE AND THE ENERGY NEEDED TO MAINTAIN THAT TEMPERATURE.



WARREN JOHNSON

WORLD'S FIRST THERMOSTAT, 1883



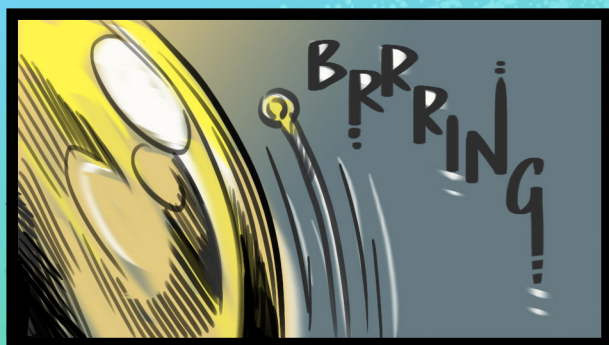
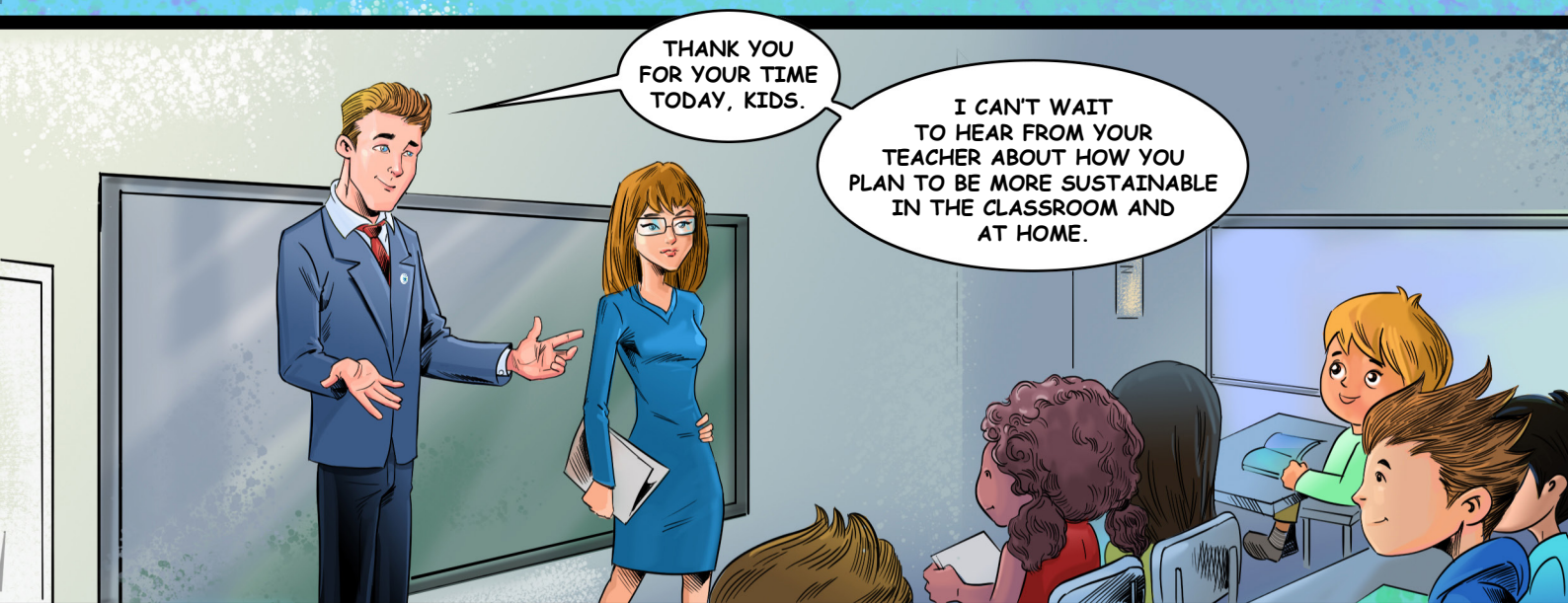
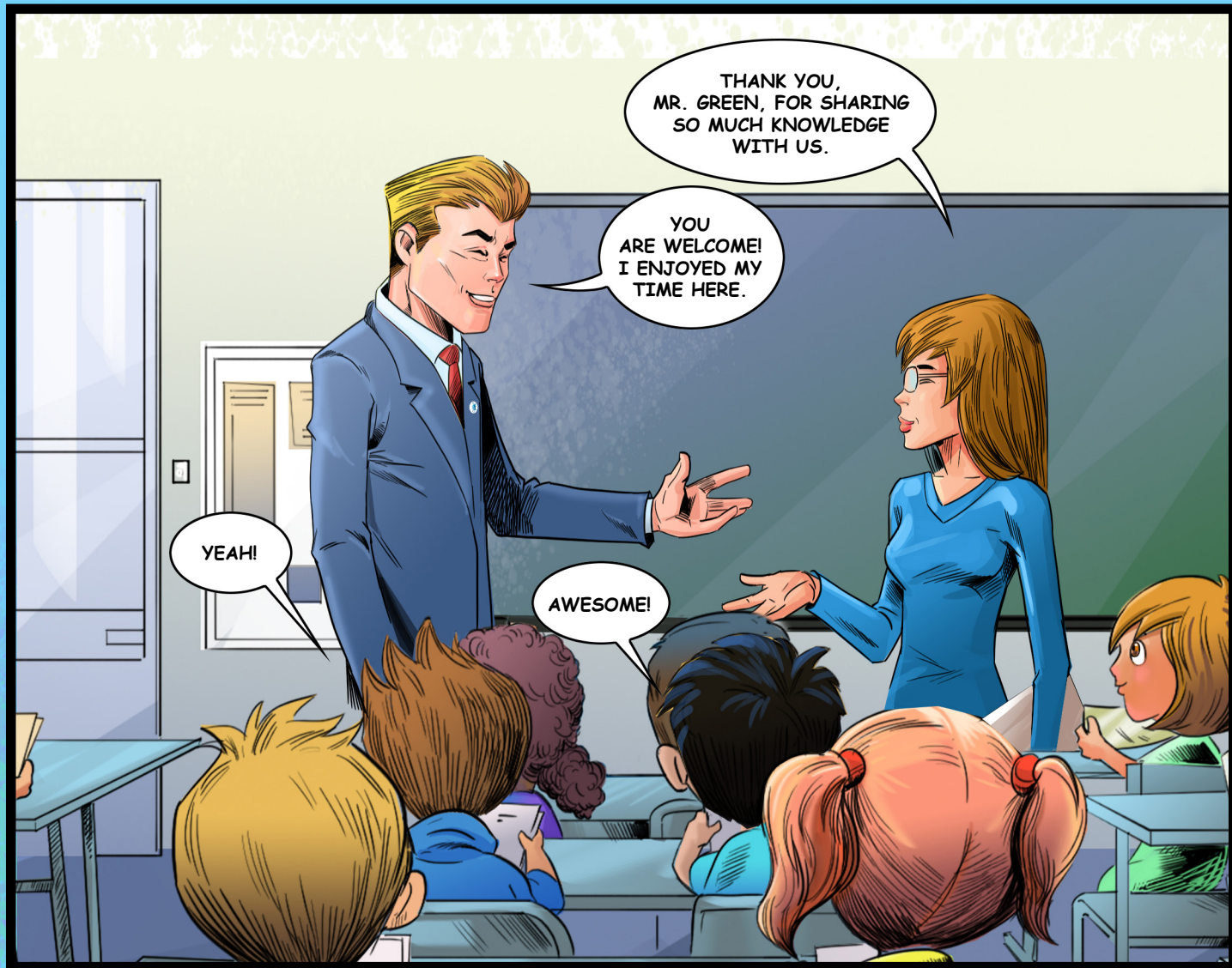
AT JOHNSON CONTROLS, WE ARE ALL ABOUT HEALTHY BUILDINGS...

...AND YOUR HOME CAN BE JUST LIKE THIS HEALTHY BUILDING BY ADJUSTING YOUR HOME THERMOSTAT SO YOU USE LESS ENERGY.

ASK YOUR PARENTS IF YOU CAN HELP THEM.







HELLO KIDS! IF YOU WANT TO LEARN MORE, GO TO THE BACK PAGE OF THIS BOOK FOR MORE INFORMATION.



OpenBlue



# Activities

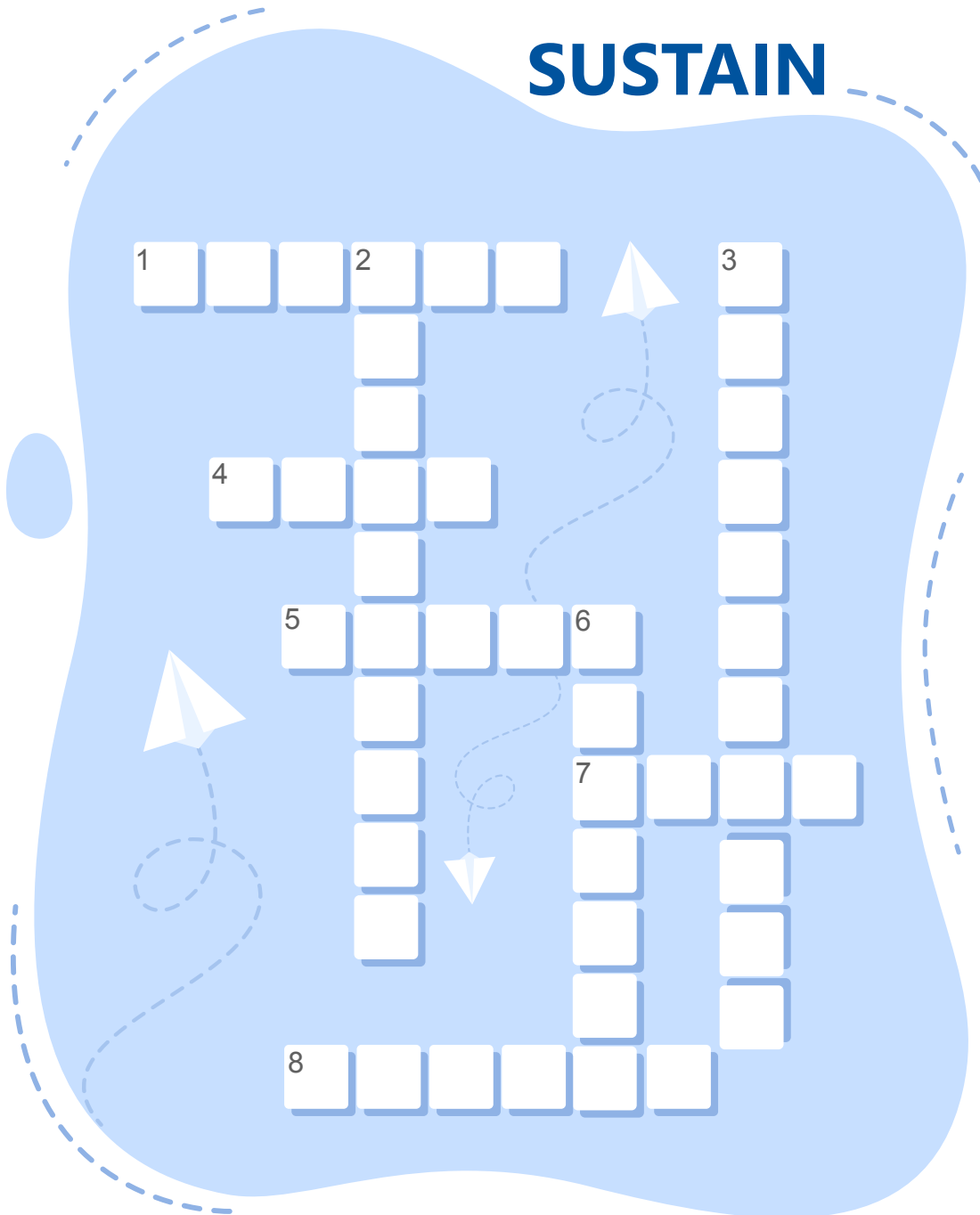
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The power behind **your mission**



# CROSSWORD

## SUSTAIN



### Down:

2. Is a device that automatically controls the temperature in the room
3. \_\_\_\_\_ means to do things to keep our planet consistently healthy
6. Reduce-reuse-\_\_\_\_\_

### Across:

1. Using a cloth bag is \_\_\_\_\_ for the environment than plastic bags
4. Johnson Controls is a \_\_\_\_\_ landfill company
5. \_\_\_\_\_ power can be used as a renewable source of energy
7. \_\_\_\_\_ has been use for the last few hundred years as a fuel
8. Greenhouse gases makes the Earth \_\_\_\_\_



# Scavenger Hunt



DID YOU SEE THESE THINGS  
AT YOUR HOME OR BUILDING?  
CHECK THEM, WHEN YOU  
FIND THEM



Leaking faucets that are  
dripping water



Smoke Detector /  
Fire Alarm



Recycle Bin



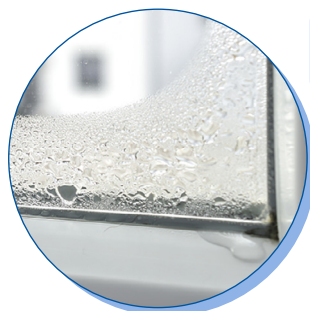
Smart Thermostat



Fire Extinguisher



Power Strips



Air-Leaking Window  
or Doors



Compost Bin



# Things to do at home



PLEASE ASK YOUR PARENTS  
FOR HELP BEFORE DOING THE  
BELOW ACTIVITES



Turn off power strips  
that aren't in use



Close the door  
behind you



Change filter on  
your furnace



Switch off any electrical  
device, if it is not in use



Turn off water when you  
don't really need it

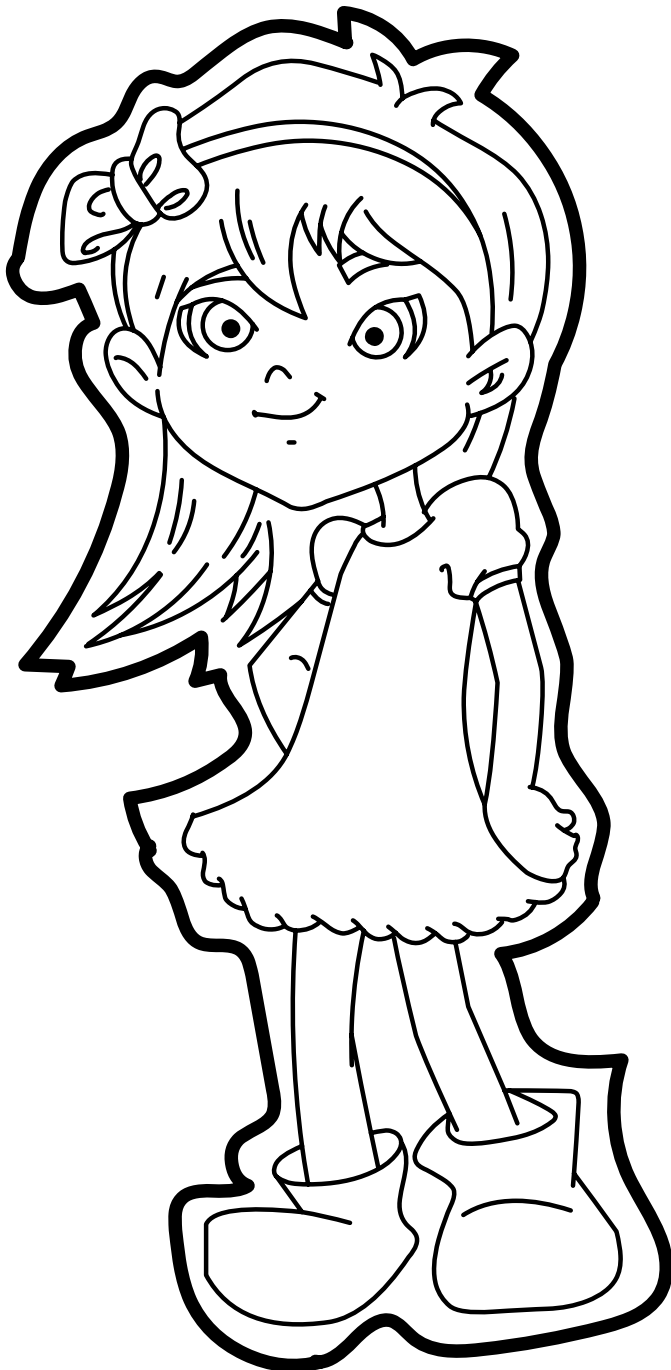


Close windows when the air  
conditioning or heat are on





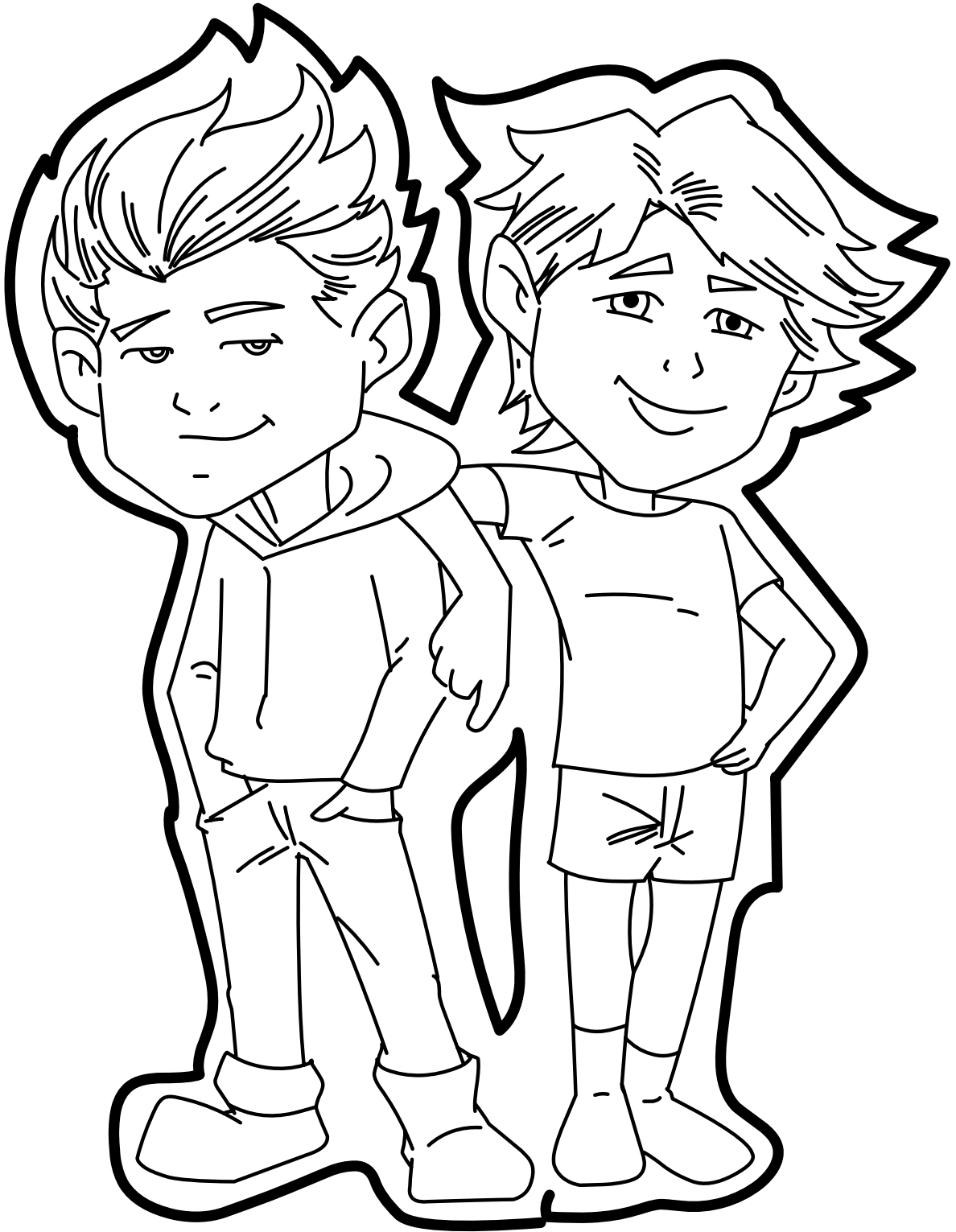
COLOR THE CHARACTERS &  
CREATE YOUR OWN STICKERS







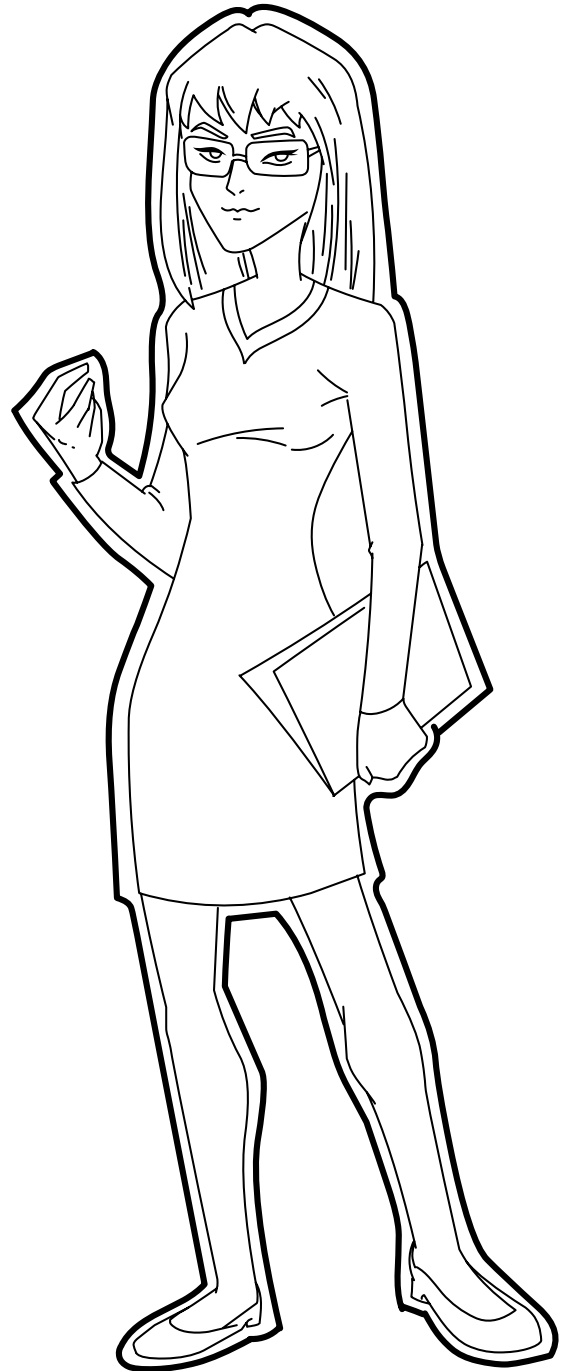
COLOR THE CHARACTERS &  
CREATE YOUR OWN STICKERS







COLOR THE CHARACTERS &  
CREATE YOUR OWN STICKERS







HAVE FUN COLORING THE  
DOODLES BELOW.  
GO GREEN!!





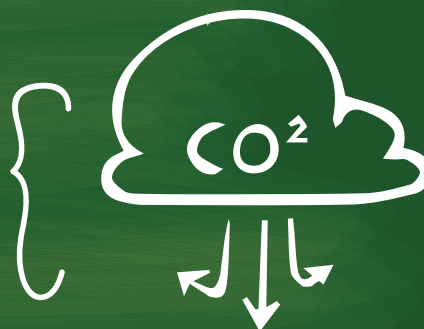


HERE'S ANOTHER FUN FACT



IN 2020, AT JOHNSON CONTROLS,  
WE MORE THAN DOUBLED OUR  
GOAL TO REDUCE GREENHOUSE  
GAS EMISSIONS FOR THE YEAR.

THIS WAS ON TOP OF THE FACT THAT  
OVER THE LAST 16 YEARS BEFORE THAT,  
WE REDUCED OUR GREENHOUSE GAS  
INTENSITY BY HALF!





# Thank You!

Stay tuned for more activities  
*coming soon...*

For more information:

[www.johnsoncontrols.com/corporate-sustainability](http://www.johnsoncontrols.com/corporate-sustainability)

Contact [cassie.rainer@jci.com](mailto:cassie.rainer@jci.com) with questions or comments about this Activity Book.

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