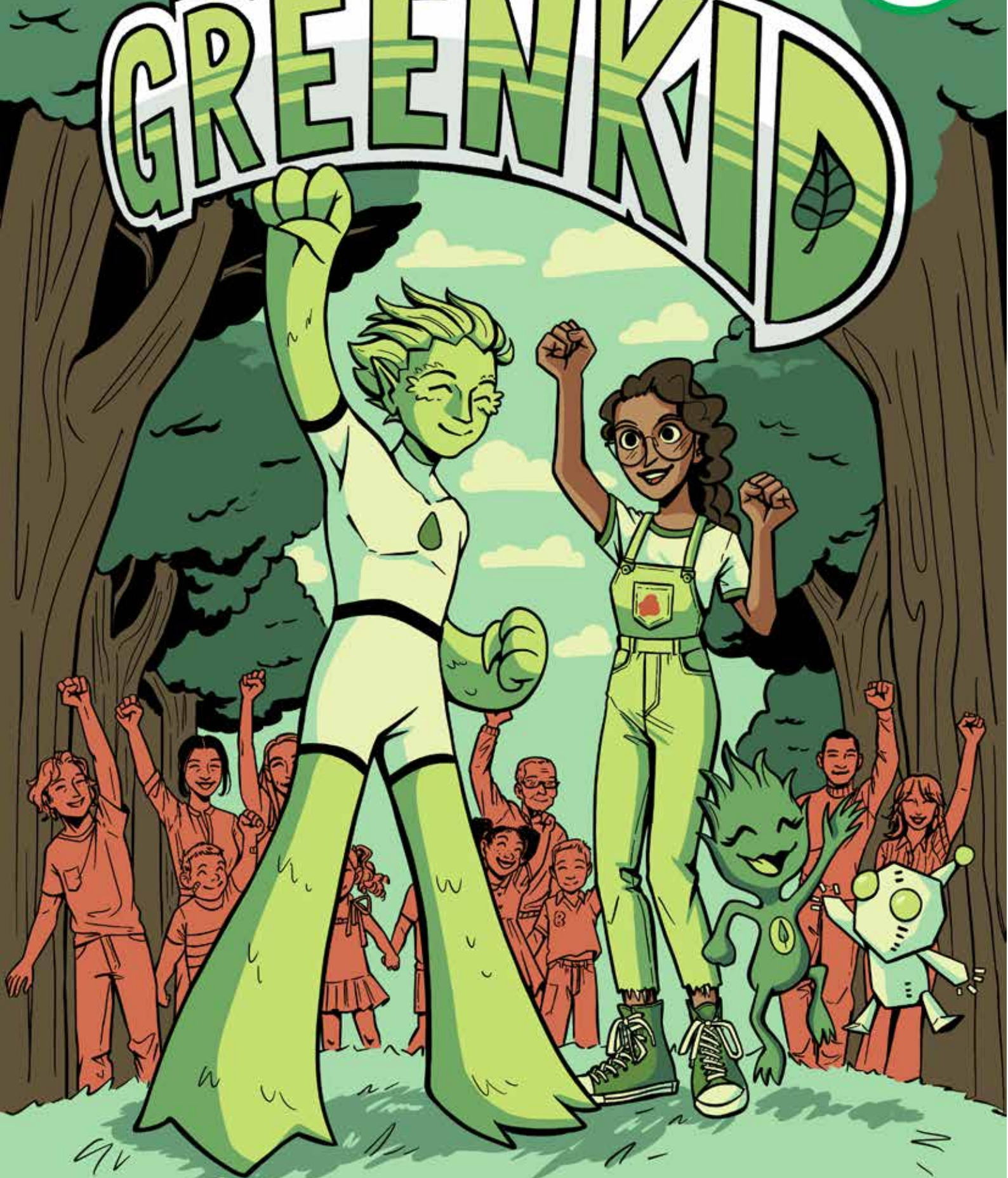


**FREE!**  
**#1**

UNIVERSITY OF YORK AND TEESSIDE UNIVERSITY PRESENTS



# GREENKID



**STORIES! PUZZLES! GAMES! IN THIS ISSUE: THE SECRET OF CYRENE!**





# GLOSSARY!



NOT SURE WHAT SOME OF THE WORDS IN THE COMIC MEAN? THAT'S OKAY! SPROUT AND CYRUS ARE HERE TO HELP!

**CATALYSTS** - SOMETHING THAT LOWERS THE ENERGY AND TIME NEEDED TO MAKE A REACTION HAPPEN BUT DOESN'T GET USED UP

**CELLULOSE** - THE MOST ABUNDANT CARBON BASED CHEMICAL ON EARTH, EVERY YEAR 100 BILLION TONS IS PRODUCED BY PLANTS. CELLULOSE IS A POLYMER MADE UP OF THE SUGAR GLUCOSE

**CHEMICAL** - A DISTINCT THING MADE FROM ATOMS

**CIRCULAR ECONOMY** - A CLOSED LOOP, AT THE END OF LIFE, THINGS CAN BE MADE BACK INTO NEW THINGS

**COUNCIL** - A GROUP OF PEOPLE WHO MAKE DECISIONS TOGETHER

**CRUDE OIL** - A MIX OF CARBON AND HYDROGEN CONTAINING CHEMICALS MADE FROM ORGANISMS THAT LIVED MILLIONS OF YEARS AGO

**CYRENE™** - A SOLVENT MADE FROM CELLULOSE VIA LEVOGLUCOSENONE\*

**DNA** - DEOXYRIBONUCLEIC ACID, THE INSTRUCTIONS FOR LIFE FOR ALMOST ALL LIVING THINGS. NEARLY EVERY CELL IN YOUR BODY HAS YOUR DNA IN IT AND IT CONTAINS ALL THE INFORMATION NEEDED FOR YOUR BODY TO MAKE YOU

**EMISSIONS** - THE PRODUCTION AND RELEASE OF SOMETHING, USUALLY A GAS

**POLYMER** - FROM GREEK, POLY MEANING MANY AND MER MEANING UNITS. IT IS A LONG CHAIN WITH LOTS OF REPEATING UNITS

**PYROLYSE** - HEATING SOMETHING UP, BUT NOT IN AIR, SO THAT IT CHEMICALLY CHANGES BUT DOESN'T BURN

**SOLVENT** - A LIQUID THAT DISSOLVES OR DISPERSES THINGS. MOST SOLVENTS ARE MADE FROM CRUDE OIL, CYRENE IS NOT

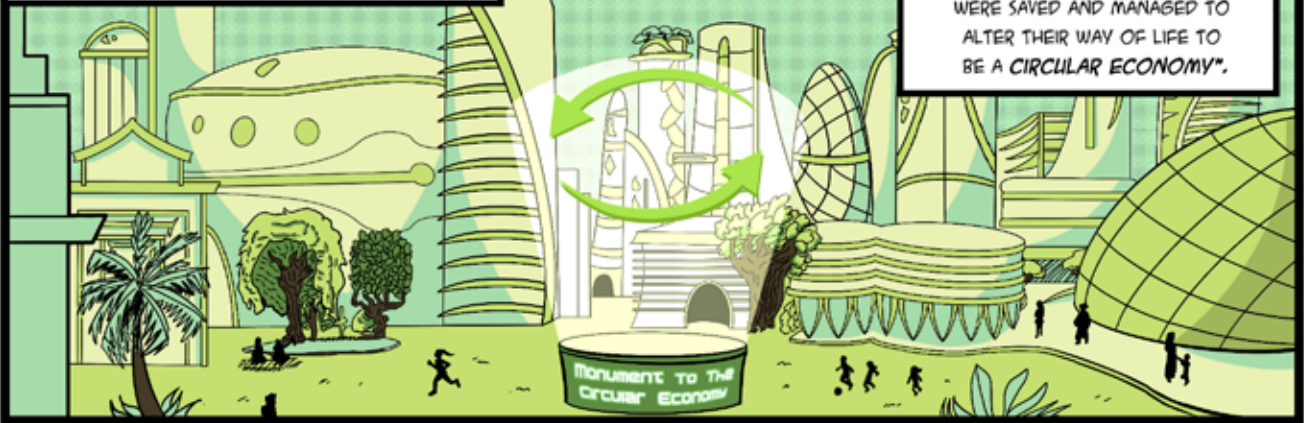
**SUSTAINABLE** - MAKING SOMETHING IN A WAY THAT WE CAN KEEP ON MAKING IT FOREVER WITHOUT HARMING PEOPLE, THE ENVIRONMENT OR THE ECONOMY

**TIME IS RELATIVE** - HOW MUCH TIME PASSES DEPENDS ON YOUR FRAME OF REFERENCE

\* - ACKNOWLEDGED TO CIRCA GROUP PTY LTD



THE YEAR IS 2064. THE WORLD WAS RAVAGED BY THE EFFECTS OF CLIMATE DISASTER.



HOWEVER SOME AREAS OF THE WORLD WERE SAVED AND MANAGED TO ALTER THEIR WAY OF LIFE TO BE A *CIRCULAR ECONOMY*™.

THE WORLD IS NOW RULED BY A *COUNCIL*™ OF SCIENTISTS AND ACADEMICS WHO ENSURE THAT THE CIRCULAR ECONOMY STAYS IN PLACE.



HOWEVER, SOME SCARS CANNOT BE REPAIRED.

I JUST WANT TO START BY THANKING THE SCIENCE COUNCIL FOR THEIR FUNDING OF MY PROJECT FOR THE PAST 2 YEARS.

AS WE ARE FULLY AWARE, THE CLIMATE DISASTER BECAME INEVITABLE IN THE 2020s. THE AVERAGE GLOBAL TEMPERATURE INCREASED BEYOND 1.5°C AND SEA LEVELS ROSE ENOUGH TO BEGIN ENVELOPING COASTAL AREAS. WE AVERTED FURTHER DISASTER BY INTRODUCING THE CIRCULAR ECONOMY BUT LIVES WERE STILL LOST. HOWEVER, WHAT I PROPOSE IS A WAY TO SAVE THOSE LIVES.



WITH THIS.

BY SENDING THIS SEED BACK TO THE PEOPLE OF THE 2020s,

THEY WILL BE GUIDED TO PREVENT THE FUTURE CLIMATE DISASTER.



SO YOU'VE CREATED A TIME MACHINE?



NOT QUITE.





4.

IN CONCLUSION, IN THE 2020s, THE SEED'S MESSAGE OF CHANGE FOR THE BETTER WILL WORK ALONGSIDE THE SCIENTISTS OF THEIR TIME TO LOWER POLLUTION AND SAVE OUR WORLD.



3.

SECONDLY, BEFORE THE 2020s THE CLIMATE CRISIS WASN'T CONSIDERED SERIOUS ENOUGH.

1.

FIRSTLY, THE PLANET'S ROOTS AND VEINS CONNECT ALL LIFE ON EARTH...



2.

TIME IS RELATIVE™ TO PLANTS. THIS SEED CODES IT'S DNA™ IN THE PAST AND WILL REGROW IN TIME TO CHANGE OUR FUTURE FOR THE BETTER.

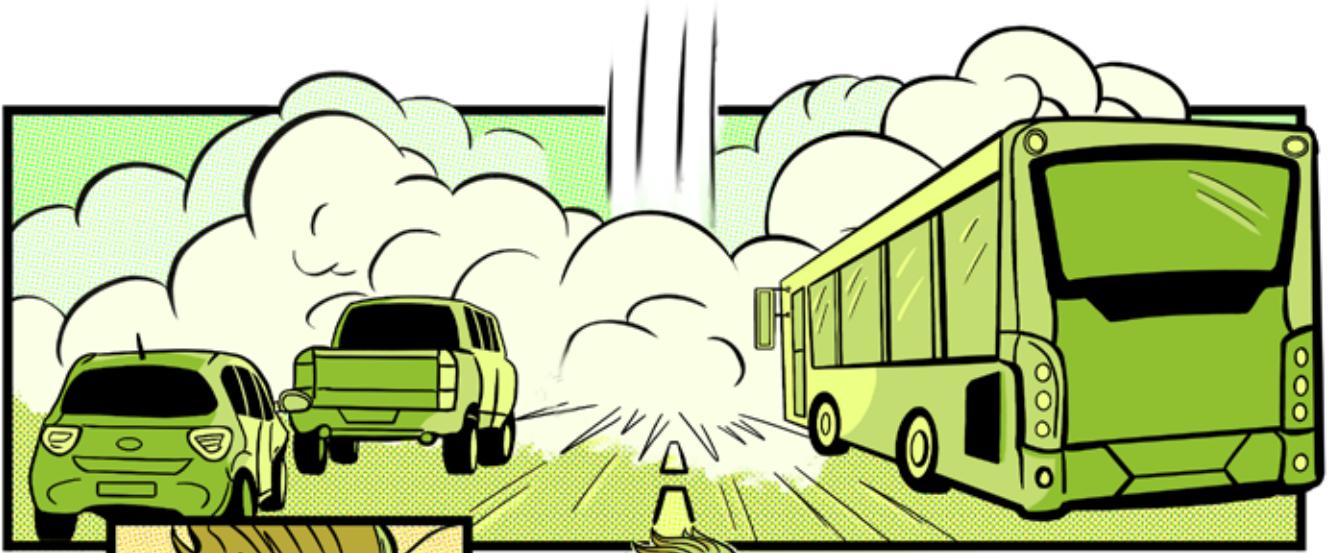




WELCOME TO THE  
ZOZOS, GREENKID!



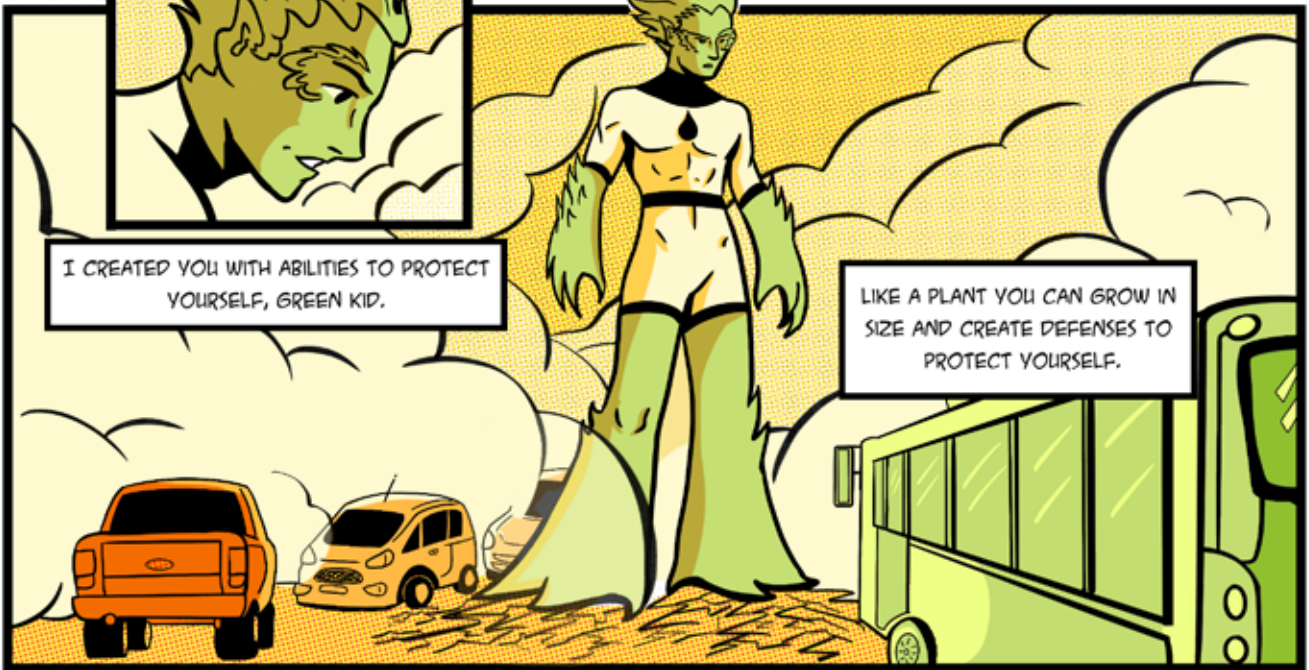




I CREATED YOU WITH ABILITIES TO PROTECT YOURSELF, GREEN KID.



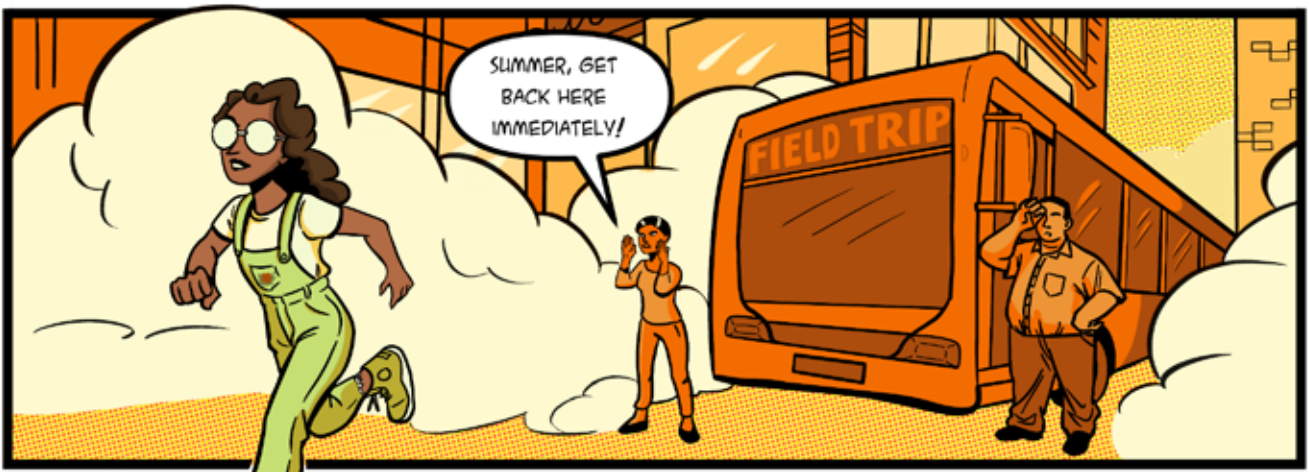
LIKE A PLANT YOU CAN GROW IN SIZE AND CREATE DEFENSES TO PROTECT YOURSELF.



YOU WILL FACE OBSTACLES SUCH AS THE INGRAINED SYSTEMS OF ENERGY\* THAT OPERATE IN THE 2020S.

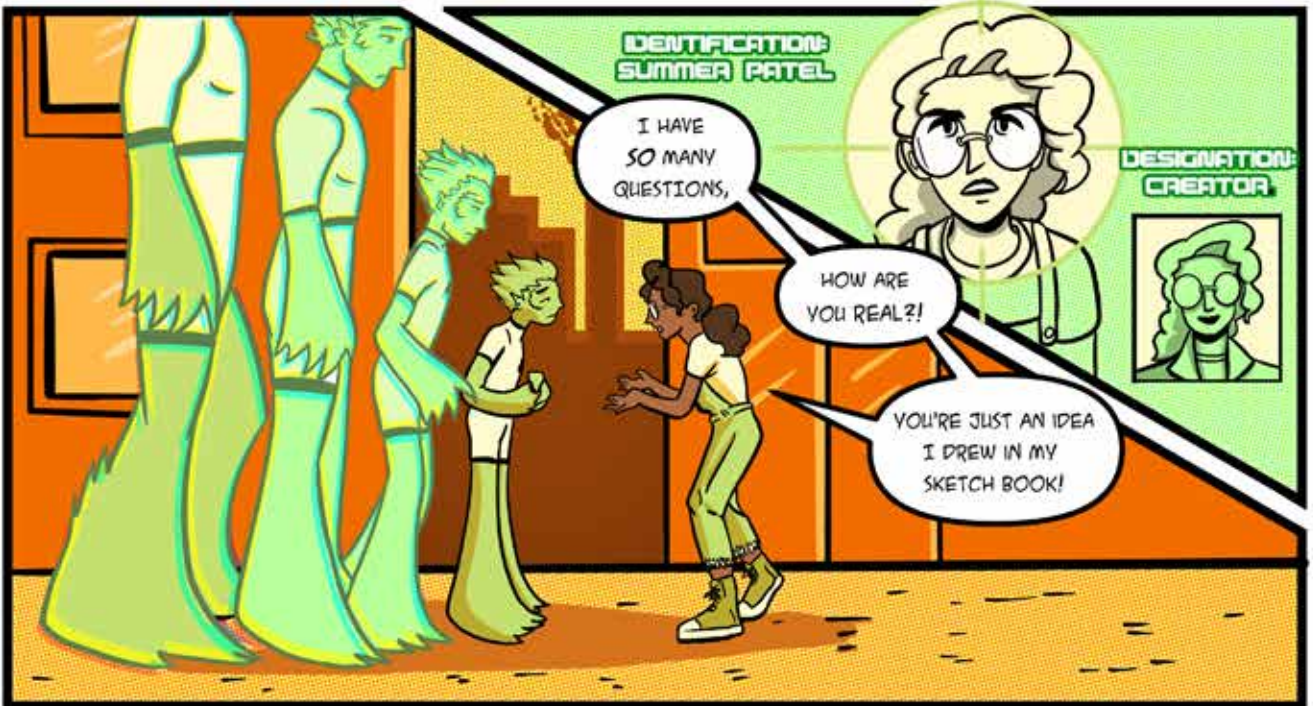
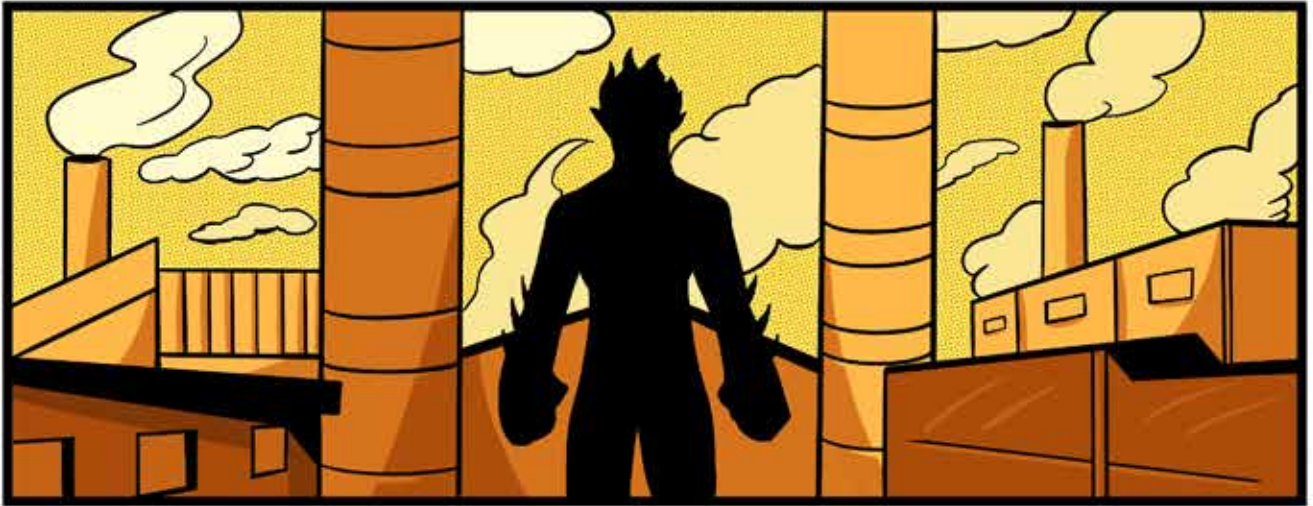


DISMANTLING THEIR SYSTEMS OF POWER IS THE ONLY WAY TO CREATE SUSTAINABLE\* SOLUTIONS.



SUMMER, GET BACK HERE IMMEDIATELY!











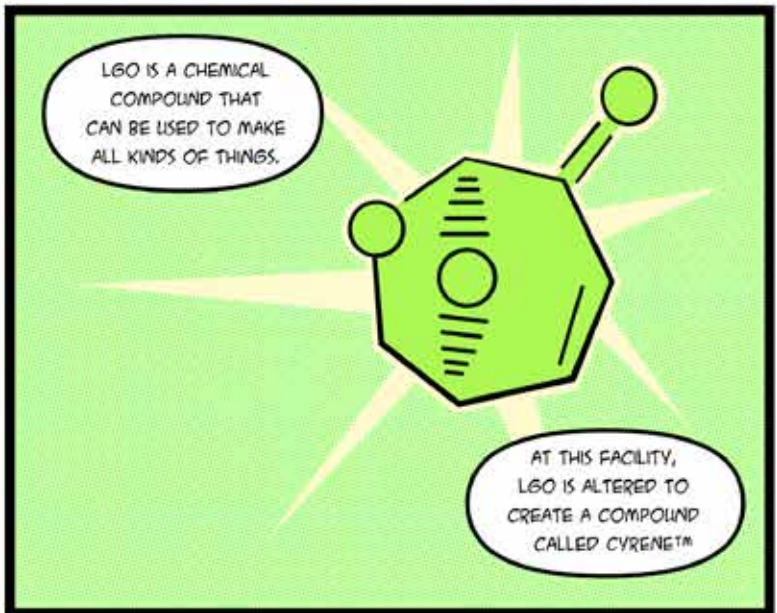


THIS IS WHERE THEY CREATE SUSTAINABLE CHEMICALS SUCH AS THE SOLVENT, **CYRENE™**!

IN THIS REACTOR THEY INPUT SAWDUST OR OTHER NATURAL MATERIALS AND **PYROLYSE™** THEM WITH THE HELP OF A FEW **CATALYSTS™**. THIS IS CALLED THE **FURCELL PROCESS**.



THIS CONVERTS THE **CELLULOSE™** INTO SOMETHING CALLED **LEVOGLIUCOSENONE** OR **LGO** FOR SHORT.

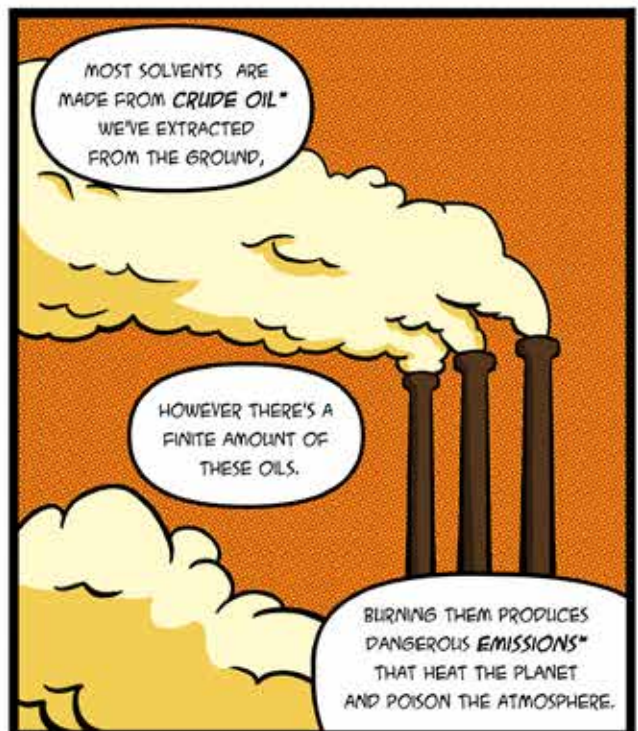


LGO IS A CHEMICAL COMPOUND THAT CAN BE USED TO MAKE ALL KINDS OF THINGS.

AT THIS FACILITY, LGO IS ALTERED TO CREATE A COMPOUND CALLED **CYRENE™**



**CYRENE™** IS A SOLVENT, A LIQUID THAT DISSOLVES THINGS, WHICH WE NEED TO USE TO MAKE ALL TYPES OF PRODUCTS!

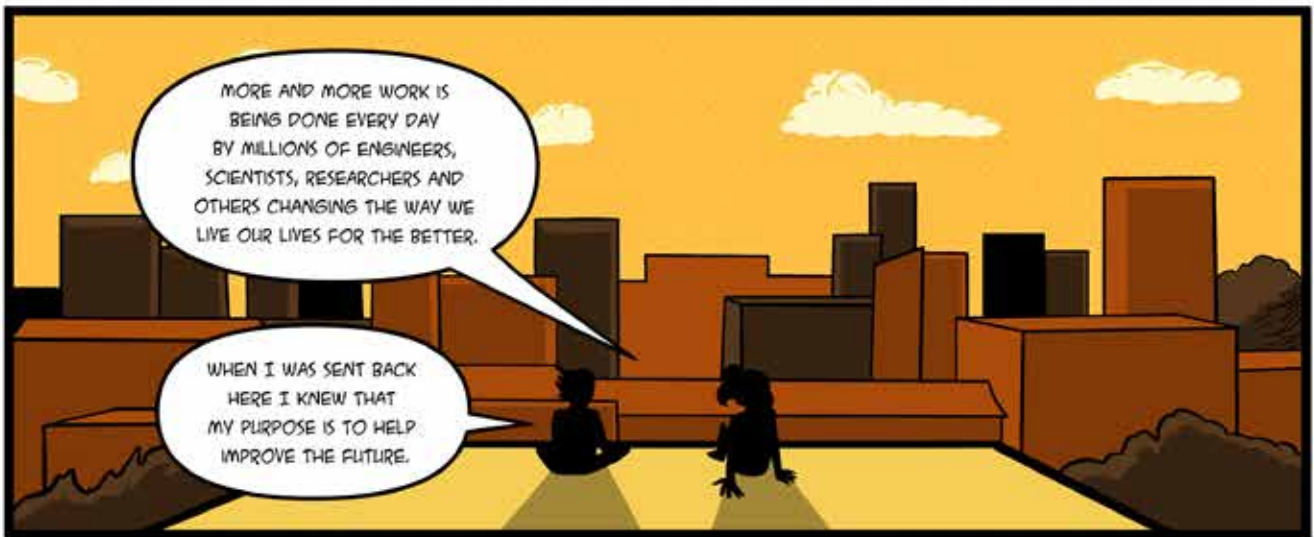


MOST SOLVENTS ARE MADE FROM **CRUDE OIL™** WE'VE EXTRACTED FROM THE GROUND,

HOWEVER THERE'S A FINITE AMOUNT OF THESE OILS.

BURNING THEM PRODUCES DANGEROUS **EMISSIONS™** THAT HEAT THE PLANET AND POISON THE ATMOSPHERE.







# FUN AND GAMES!

GREENKID AND HIS FRIENDS ARE HERE! CAN YOU HELP OUT HIS FRIENDS SPROUT AND CYRUS?



CYRUS!

COLOUR SPROUT AND GREENKID IN!



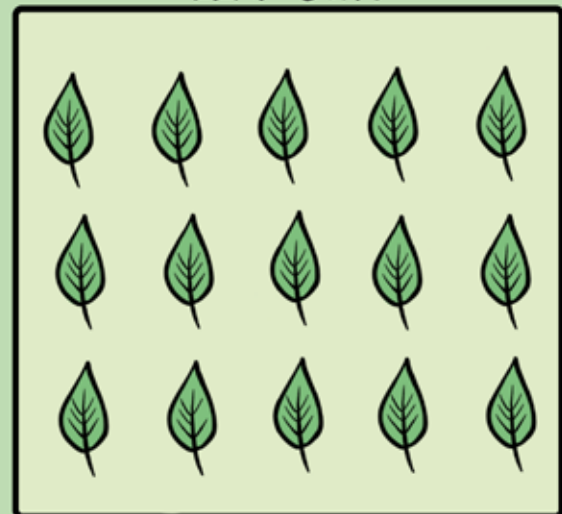
SPROUT!

CAN YOU FIND THE ODD LEAF OUT?

DID YOU COUNT THE GREENKID LOGOS IN THE COMIC?



BEST FRIENDS!



CAN YOU HELP CYRUS AND FIND THESE WORDS?

S	O	S	G	R	E	N	E	W	A	B	L	E
U	E	C	C	A	T	A	L	Y	S	T	L	E
S	F	U	D	T	Y	O	C	R	S	L	P	S
T	E	Y	E	D	P	D	T	S	O	M	Y	O
A	E	I	N	S	U	N	F	S	N	G	R	L
I	D	P	E	B	E	I	A	T	E	R	O	U
N	S	I	E	L	L	L	T	H	L	E	L	L
A	T	S	S	O	L	V	E	N	T	E	Y	L
B	O	T	S	H	L	S	E	O	V	N	S	E
L	C	T	W	O	O	V	N	A	E	K	I	C
E	K	N	E	O	Y	I	P	Y	O	I	S	S
N	E	R	O	Y	A	E	S	A	E	D	L	T
P	H	O	T	O	S	Y	N	T	H	E	S	I
S	O	E	Y	L	R	S	L	A	T	T	N	N

- GREENKID
- CATALYST
- SOLVENT
- CELLULOSE
- PYROLYSIS
- SUSTAINABLE
- RENEWABLE
- PHOTOSYNTHESIS
- POLYMER
- FEEDSTOCK





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