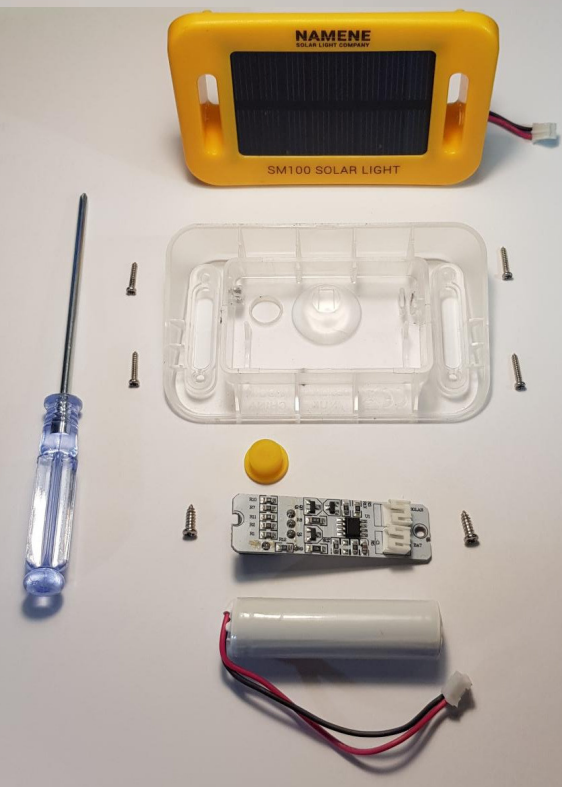


Francesca Shirley (Chessie) has spearheaded the development of **Build 1 Give 1 solar reading light program** in partnership with Million Solar Stars.

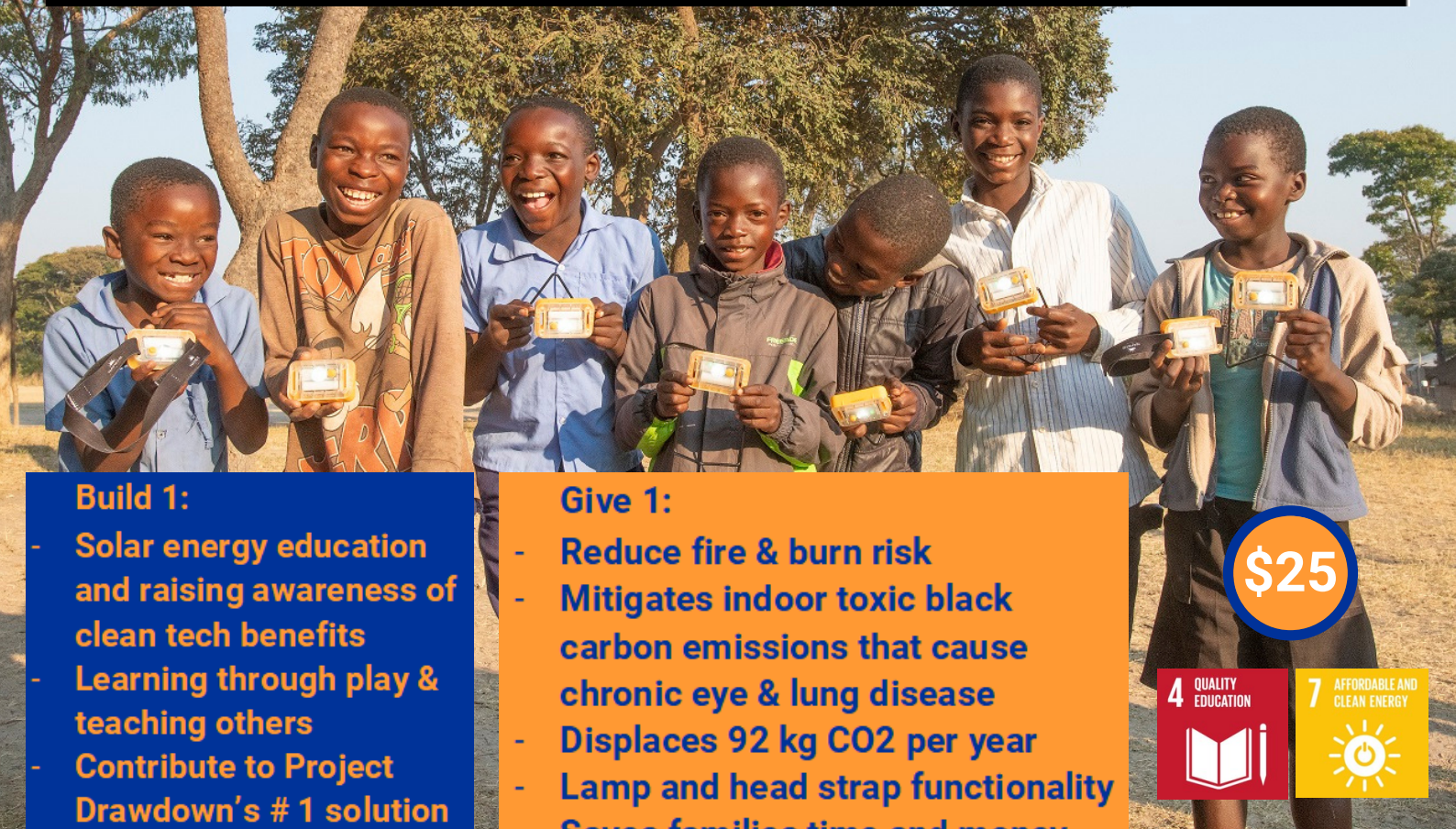
She has developed engaging lessons with solar reading lights that focus on health, happiness, and climate change solutions. These lessons provide tangible, real world connections to Sustainable Development Goals (SDG3 Good Health & Well-being, SDG4 Quality Education, SDG7 Access to Affordable & Clean Energy, and SDG13 Climate Action). To date, Build 1 Give 1 solar light workshops have run in the U.A.E., U.K., South Africa, and Kenya. The goal is to link Build 1 Give 1 lessons to curriculum at schools around the world to maximize educational, economic, and environmental value.

Chessie, Namene Solar, and Million Solar Stars are developing a unique initiative to engage students as Solar Star Superheroes as they learn about CleanTech, minimize carbon emissions, maximize good health, and contribute to quick and scalable global clean energy solutions.

BUILD-ONE GIVE-ONE by NAMENE SOLAR



STEAM cross curricular activities, connecting students globally through our universal need for safe, clean, bright light. Together we can eradicate kerosene lamps, tackle global inequality, and remove 1 % of global emissions.



Build 1:

- Solar energy education and raising awareness of clean tech benefits
- Learning through play & teaching others
- Contribute to Project Drawdown's # 1 solution
- Global Citizenship – connecting students across the world to close the inequality divide from both sides

Give 1:

- Reduce fire & burn risk
- Mitigates indoor toxic black carbon emissions that cause chronic eye & lung disease
- Displaces 92 kg CO2 per year
- Lamp and head strap functionality
- Saves families time and money
- Helps families learn & earn
- 2 x brightness settings:
 - 5 + hrs highest level
 - 15 hrs lowest level

\$25



4 QUALITY EDUCATION

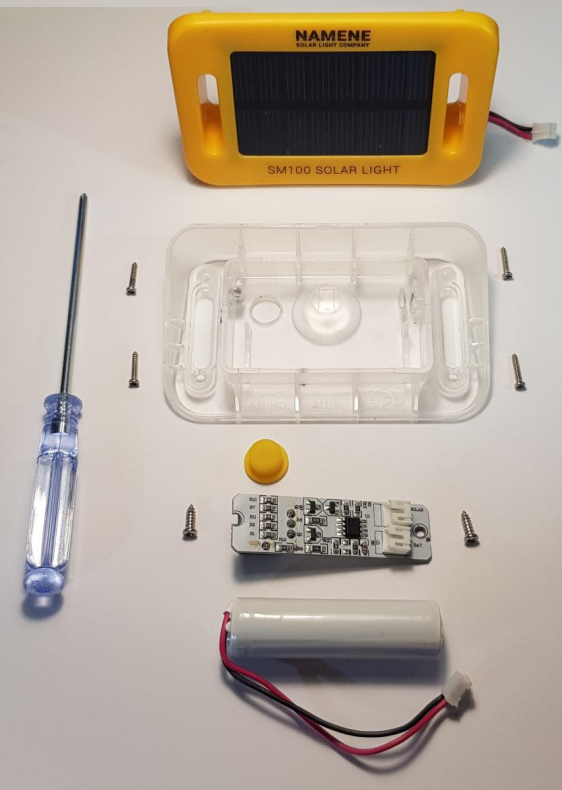


7 AFFORDABLE AND CLEAN ENERGY

in partnership with



BUILD-ONE GIVE-ONE by NAMENE SOLAR



STEAM cross curricular activities, connecting students globally through our universal need for safe, clean, bright light. Together we can eradicate kerosene lamps, tackle global inequality, and remove 1 % of global emissions.

\$25



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in partnership with





NAMENE SOLAR x Million Solar Stars

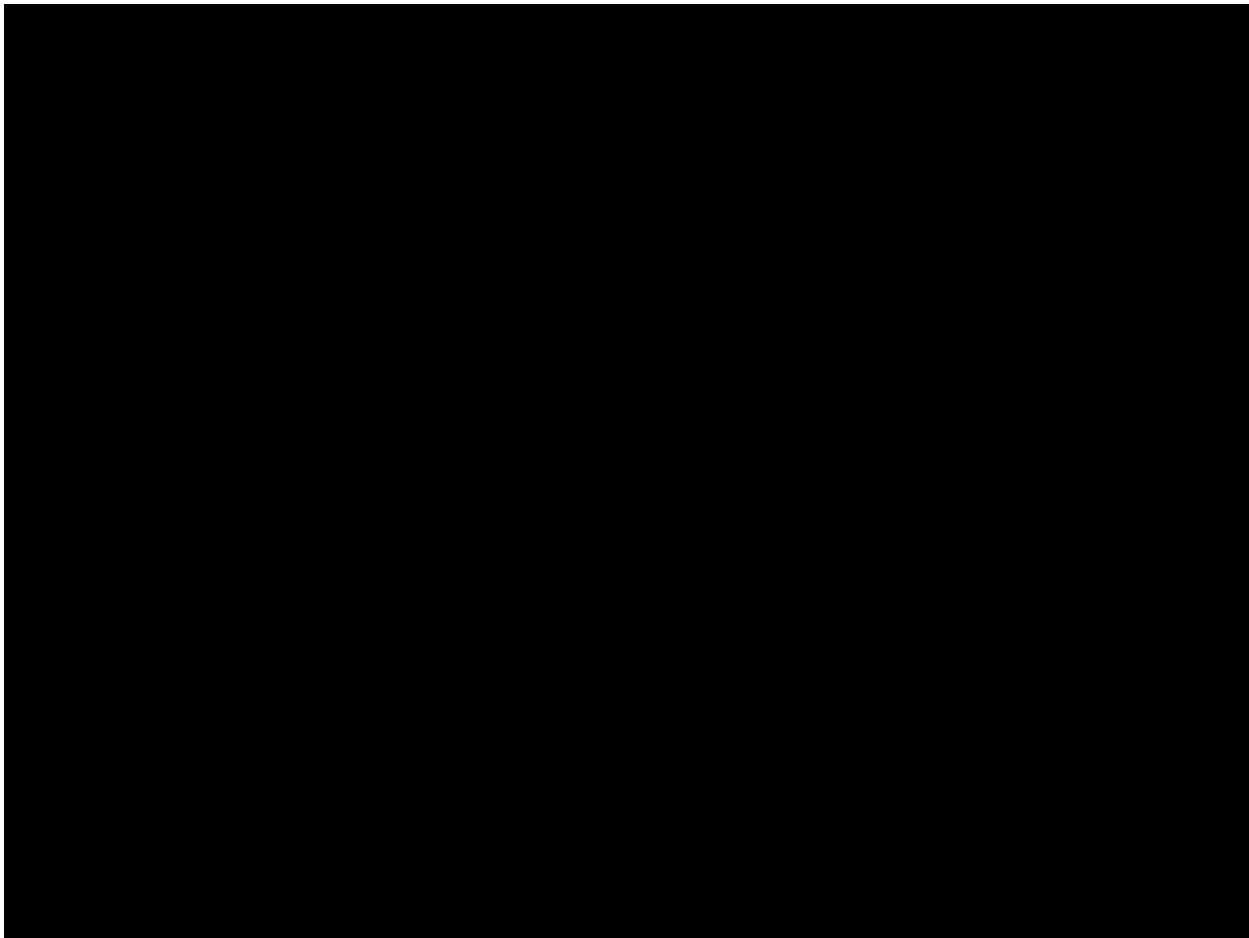
Lesson 2

Objective:

Explore components
of health and solar
lights



Basic bike parts



1. Happiness overview

What are other components of happiness?

What do we need to be happy?

1. Happiness overview

Visit: www.menti.com

Type code: 2665 5676

What are other components of happiness?
What do we need to be happy?

For Chessie to insert word cloud

1. Happiness overview

Thank you for sharing! 😊 😊



4. Your feedback

Click the link below

**Solar Star Review - Building
your Solar Light**

Our Mission Together

small
renewable energy
solution

with

**BIG
IMPACTS**

for

HAPPINESS ✓
HEALTH
CLIMATE CHANGE

Our Mission Together

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HEALTH ←
CLIMATE CHANGE



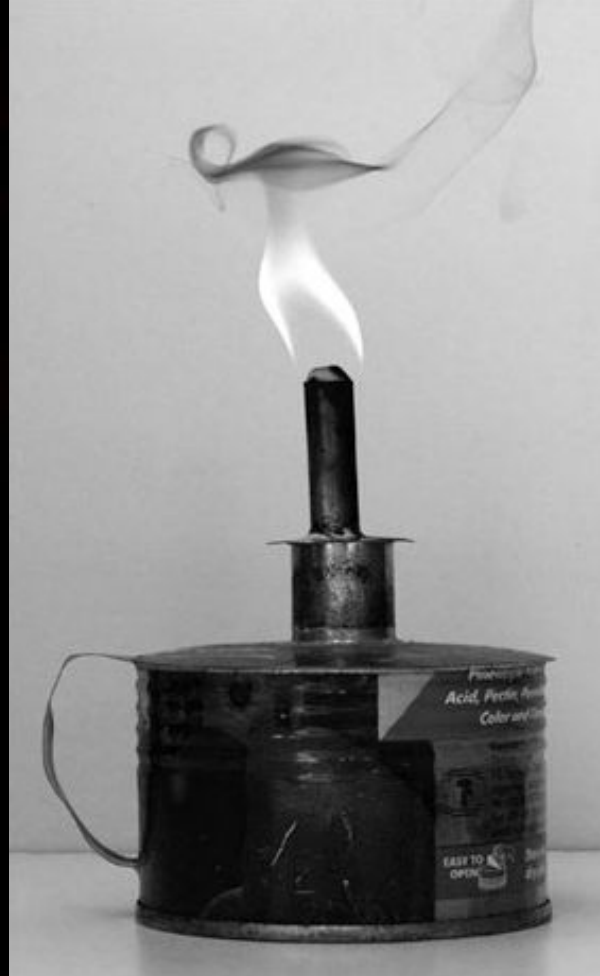
1. Health overview

Visit: www.menti.com

Type code: 2665 5676

What do we need to be healthy?

For Chessie to insert word cloud





KEROSENE VERSUS SOLAR

1 kerosene light produces
370 kg of **CO₂** /year

In addition to poor light quality, kerosene lights trigger
POLLUTION, FIRES & HEALTH ISSUES.

1% of total emissions worldwide
CO₂ & black carbon

Kerosene lights kill more than **MALARIA**
*1.5 million of death per year

\$50 to 100 kerosene spending
per annum (USD)

**UNFORTUNATELY
MORE KEROSENE LIGHTS ARE USED EVERY YEAR**

Our solar light offsets
92 kg of **CO₂** /year
for 7 years

Our solar lamps provide a better lighting solution:
AFFORDABLE, RELIABLE, DURABLE & CLEAN.

NO carbon emission
with solar lighting



Improve everyday life, health & safety
but also working & studying conditions.

\$5 cost at once (USD)
= Long term savings

High levels of black carbon emissions
trigger respiratory & eye diseases.

1 kerosene light equals :
smoking 4 cigarette
per day **packets**

"I know if my
students have done
their homeworks,
simply by seeing
their red eyes"

— a teacher in Namibia

High risks of fire
& severe burns



3 times more **ILLUMINANCE**
compare to Kerosene lamp



Charging time 4 hours @ equator



2 lighting settings 30 lumens for 4 hours +
10 lumens for 10 hours +



Multi-flexible use:
full 360° rotation on stand,
hangleable, head torch



2 years

NAMENE
SOLAR







Choose your Superhero Power!

1. Change energy from one type to another
2. Change the speed and direction of energy
3. Store energy for future use
4. Control the stop and start of energy release
5. Use energy with the least waste of time and effort



#LightsPowerAction

NAMENE
SOLAR

20

Superhero Signal Prototype

STEP 1:

Build
your box



Superhero Signal Prototype

STEP 2:

Line up your
solar light with
the Right Hand
Side hole



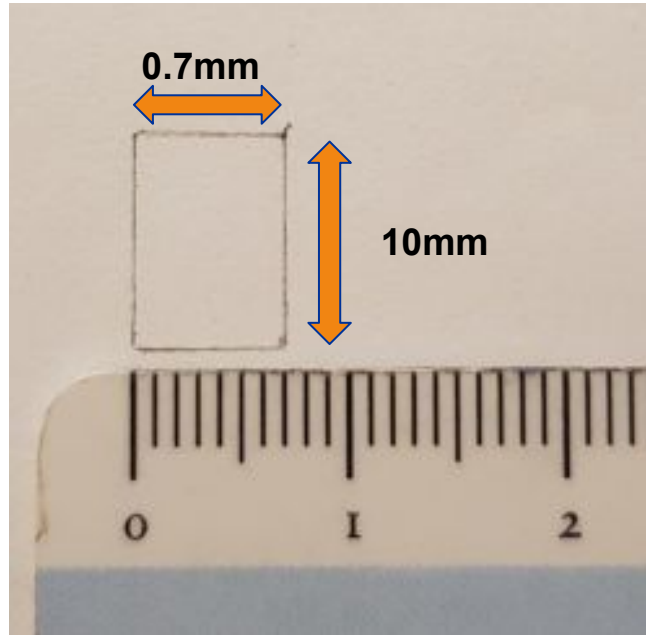
Superhero Signal Prototype



Line up
the LED
and the
hole



Superhero Signal Prototype

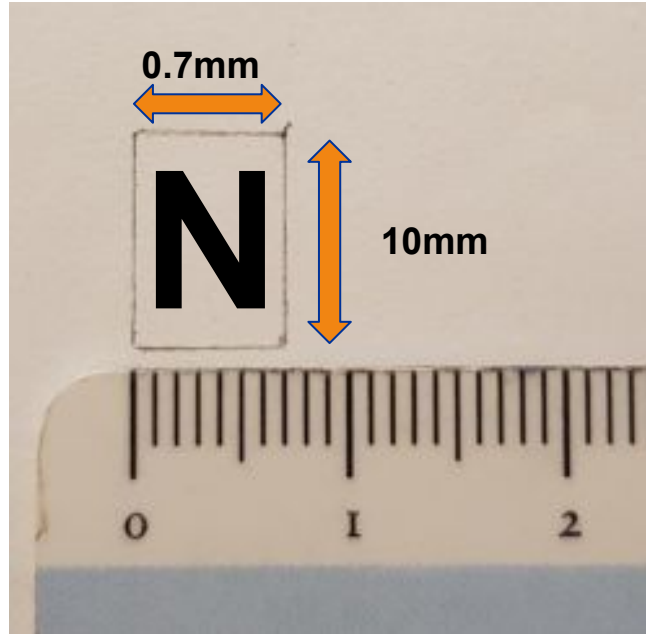


Measure a rectangle:

0.7mm x 10mm

On black craft paper

Superhero Signal Prototype



**Draw the a letter or
simple symbol in
this box and
carefully cut it out**

Superhero Signal Prototype

Stick your letter on a strip of stick tape and stick your letter over the left hand side hole of your box



Superhero Signal Prototype

Turn off the lights
and shine your
prototype superhero
signal on a surface



Superhero Signal Prototype

Change this distance:
between a screen and the
light box and observe
how your superhero
signal changes size



Your feedback

Click the link below

Superhero Signal Prototype

Thank you so much!! 😊 😊



Built to: Work Play Last