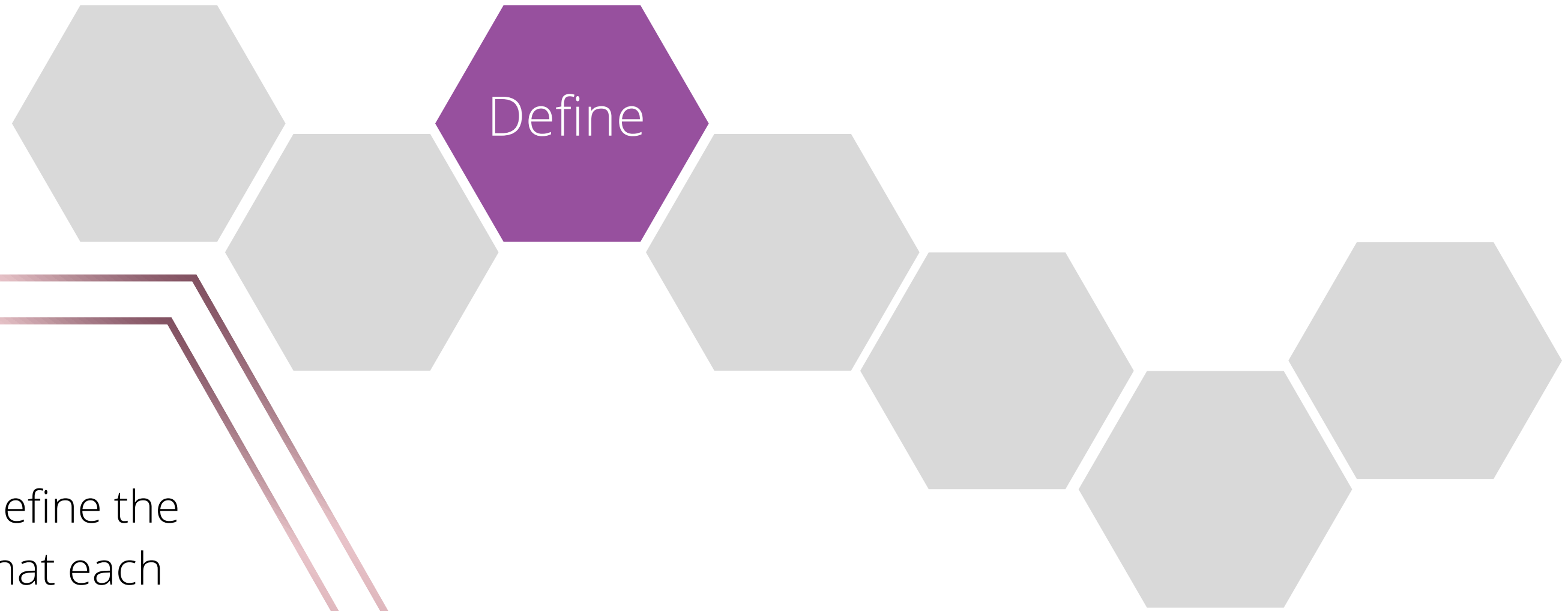


COMMUNITY OF THE FUTURE

RENEWABLE ENERGY



DESIGN MAP



Students will define the specific way that each component of their model will represent the current issues that they have discovered.

WHY DO WE TALK ABOUT ENERGY WHEN WE TALK ABOUT WITH CLIMATE ACTION?





**Here are a few important
things to understand**

What are fossil fuels?

Fossil fuels are emitted when we burn coal, oil and natural gas. Those 3 natural sources have been formed millions of years ago and are full of CO_2 . Fossil fuels are released when those materials are burned.



What are greenhouse gases?

carbon dioxide

Humans are the biggest creators of carbon dioxide, and 84 % of our carbon dioxide comes from fossil fuels.

Electricity and heat account for 41% of fossil fuels.

Transportation is the 2nd biggest user at 22%

Not all carbon is bad...

**Humans are also
composed of carbon,
carbon is needed for
plants to grow.**

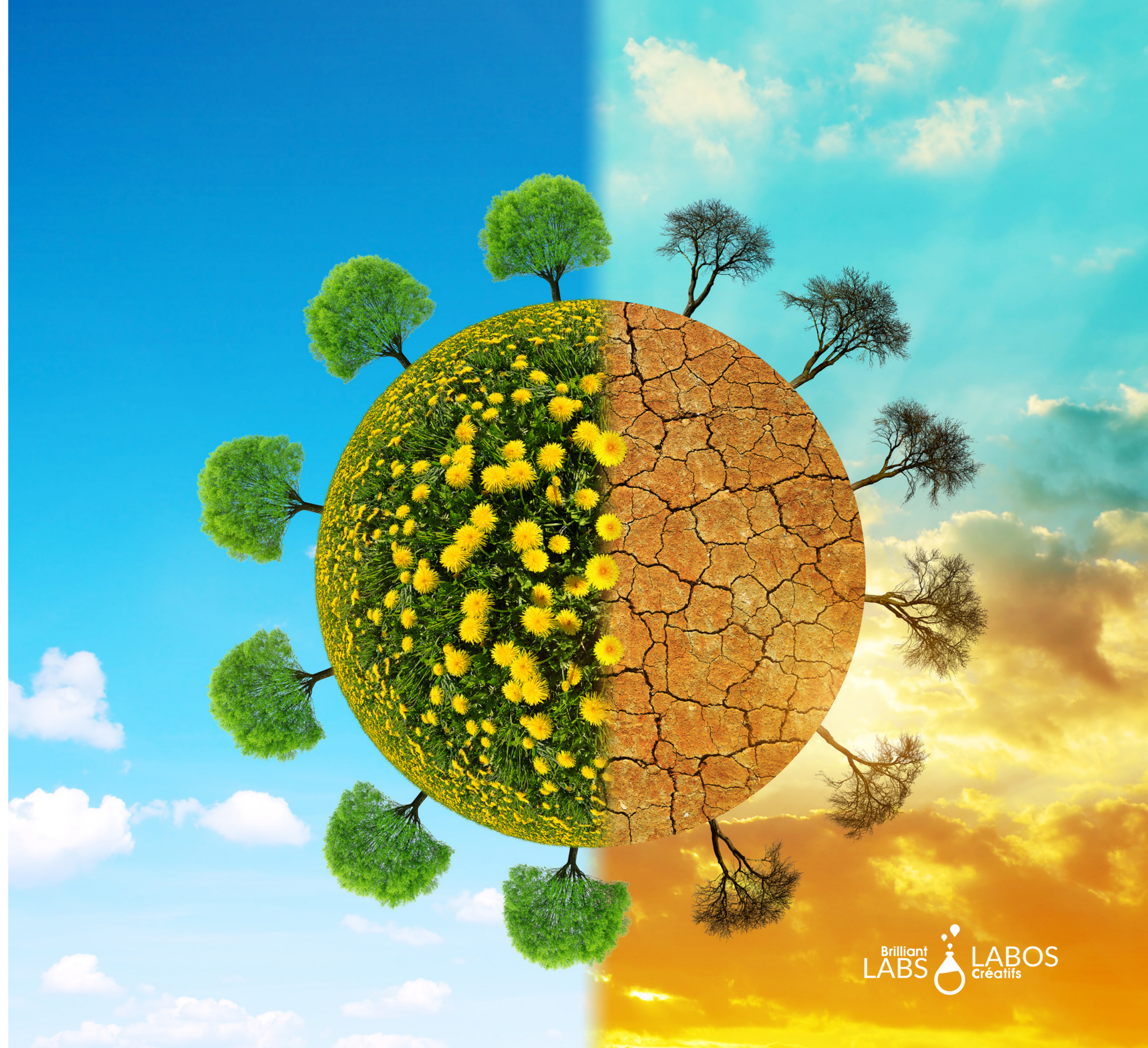
**Microbes in the soil
need the carbon to make
our food grow.**



Chemicals are killing
the microorganism -
microbes, needed to
help food grow

Fossil fuels are also responsible for the greenhouse effects.

The greenhouse effect is when those gases are trapped in the earth's atmosphere which results in the climate getting warmer.



What do the following energy
sources have in common?









They are renewable sources of energy.

Meaning, we rely on weather to create them, the sun will shine , the wind will blow and the water will flow.

But what about biomasse ?

Why is it a renewable energy?



**What is the ecological impact
from those sources?**

What is a zero energy solution?

A building is considered zero energy when it generates the same amount of energy as it consumes in a year.



**What are some innovative,
energy-efficient and
sustainable ways we can
create energy?**

How can we use terracotta for energy ?

How can we make energy from algae?

**How can we make energy
using our soil?**

**What type of
renewable
energy would
be best for
your
community?**



EXIT SLIP

Share 2 reasons why
your idea is
sustainable.