This picture shows the carbon cycle. This is what we call the movement of carbon between the air, the earth, living organisms, and fuel.
CROSSWORD PUZZLE

Look at the picture showing the carbon cycle. This shows how carbon moved between the air, the earth, plants, and animals. Use what you learn to solve the crossword puzzle. There are also some clues below to help you.

The goal of solving the puzzle is to fill in the grid with different words. Each letter of the word fits into a white square on the grid. The list of clues will help you find the right word, and the place in the grid where the answer to each clue should go is shown by a number.
Breathe! Inhale, now exhale. Please pay attention. This process is called ________.

When we breathe, our body takes the oxygen from the air, and when we exhale, we release ________dioxide (CO₂).

CO₂ in the air is captured by plants together with water and energy from the sun in a chemical reaction called ________.

This process allows plants to produce their own ________, which they can use as energy to grow.

That is why plants are called ________, which means “self-feeding” in Greek.

As a result of this chemical reaction, ________ is produced and released into the air. Hint: you need this gas to breathe.

Since animals like you and me can’t produce our own food like plants do, we need to eat things to get energy and protein. This means we are called ________.

So, if you are having dinner and eat rice, the carbon that is stored as food in this ________ will go into you.

Living things like plants or animals are called ________. When they die, the carbon that it has stored as food will start to change.

After millions of years being buried under rocks and dirt, the carbon can become ________ fuel.

These fuels are burned by humans to release ________, which we use for things like heating our homes, making electricity, and cooking our food.

When burned, the carbon that is stored in the fuel is ________ into the air again.

This whole process is what we call the carbon ________.

Which is the ________ of the carbon between its different reservoirs like the air, living organisms, the soil, and fuel.

We humans have been releasing ________ CO₂ into the air that is captured and stored by natural processes.

CO₂ is a ________ gas, which means it makes a layer around earth and traps in the heat.

Too much of this gas can lead to a rise of ________.

Which impacts the ________ by causing changes in the weather.

Changes in weather and temperature over a long period of time and everywhere on our planet is called ________. 
1. Breathe! Inhale, now exhale. Please pay attention. This process is called respiration.

2. When we breathe, our body takes the oxygen from the air, and when we exhale, we release carbon dioxide \( \text{(CO}_2 \text{)} \).

3. \( \text{CO}_2 \) in the air is captured by plants together with water and energy from the sun in a chemical reaction called photosynthesis.

4. This process allows plants to produce their own food which they can use as energy to grow.

5. That is why plants are called autotrophs which means “self-feeding” in Greek.

6. As a result of this chemical reaction, oxygen is produced and released into the air. Hint: you need this gas to breathe.

7. Since animals like you and me can’t produce our own food like plants do, we need to eat things to get energy and protein. This means we are called heterotrophs.
8. So, if you are having dinner and eat rice, the carbon that is stored as food in this plant will go into you.
9. Living things like plants or animals are called organisms. When they die, the carbon that it has stored as food will start to change.
10. After millions of years being buried under rocks and dirt, the carbon can become fossil fuel.
11. These fuels are burned by humans to release energy which we use for things like heating our homes, making electricity, and cooking our food.
12. When burned, the carbon that is stored in the fuel is released into the air again.
13. This whole process is what we call the carbon cycle.
14. Which is the movement of the carbon between it’s different reservoirs like the air, living organisms, the soil and fuel.
15. We humans have been releasing more CO₂ into the air that is captured and stored by natural processes.
16. CO₂ is a greenhouse gas, which means it makes a layer around earth and traps in the heat.
17. Too much of this gas can lead to a rise of temperature.
18. Which impacts the environment by causing changes in the weather.
19. Changes in weather and temperature over a long period of time and everywhere on our planet is called climate change.