

**BECAUSE
OF THEM
WE CAN**
BOX
JUST FOR KIDS

BECAUSE OF GEORGE WASHINGTON CARVER

AGES 9-12

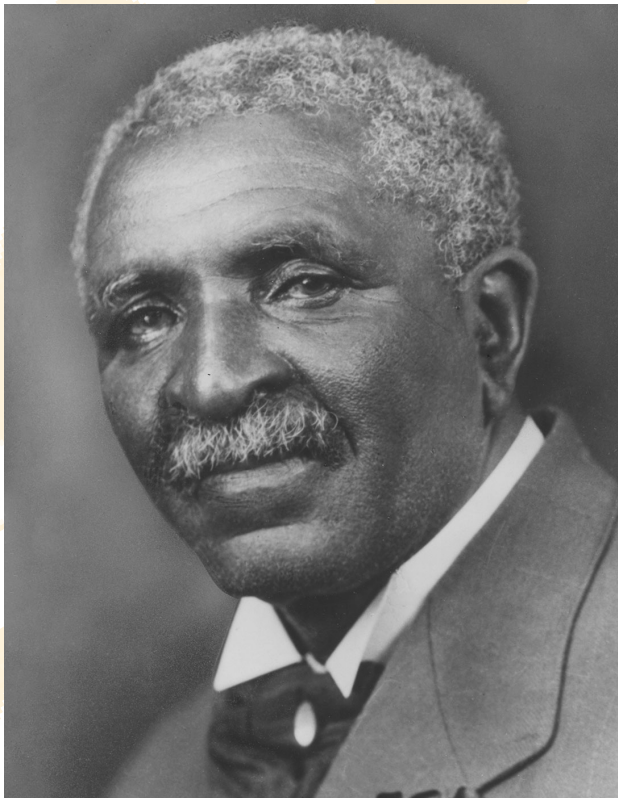
BOTWC Mini posing as
George Washington Carver


**EDUCATION IS THE KEY
TO UNLOCK THE
GOLDEN DOOR OF
FREEDOM.**

GEORGE WASHINGTON CARVER

HOW GEORGE WASHINGTON CARVER'S...

While reading about George Washington Carver, ask yourself questions such as who, what, where, when, why, and how. Then answer the questions on the next page.



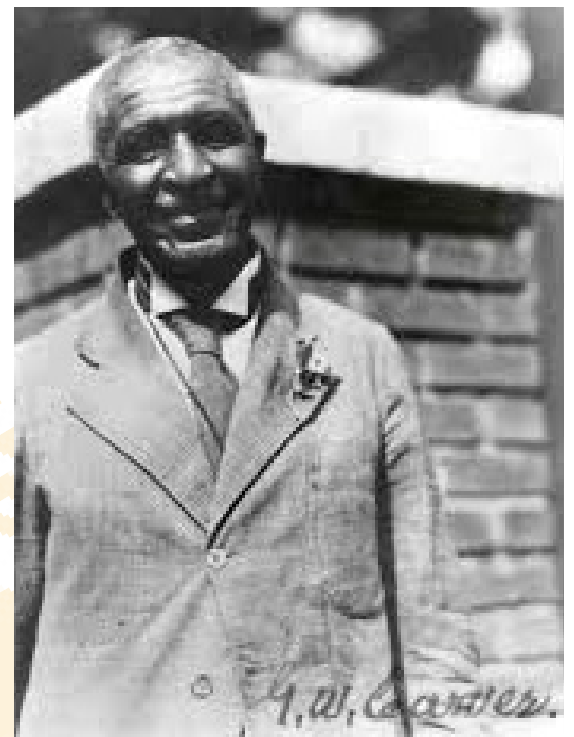
George Washington Carver is known to many as the **inventor** of peanut butter – but that is actually not true. Even if he had, that would not start to describe all the things he did do and the lasting impact of his work. What he did do was create over 300 uses for the peanut including paper, oils, dyes, and even soap – just to name a few. He was also the first African American to have a degree in science from college.

Carver liked plants and gardening from a young age. Even as a child he would help farmers with their gardens. He **eventually** went to school to learn more about land, plants, and the science about how to use plants. This is called **agricultural** science.

After he graduated from Iowa State University he worked at Tuskegee University for the rest of his life. He was in charge of the school's garden and designed a program to teach students about plants and how to use them, improve them, and find out more about what

they could do. One of his most **impactful** inventions was a way to farm using **crop** rotation, where he taught farmers to grow peas and peanuts for a while and then plant cotton to help the soil rest and regain nutrients. This method helped farmers grow even more of what they were growing before.

Carver was a man who helped poor farmers and changed the way in which people farmed. He went from being born into slavery to being a celebrity. Because of him we have found so many uses for different plants, we can produce more crops, and we can love science and plants.



... GARDEN GREW

What did George Washington Carver like to do?

What inventions did he make?

What was George Washington Carver's impact?



IS THE GRASS GREENER?

Just like George Washington Carver, you can be a scientist too! You will grow a seed and observe it, to go through the same process that scientists go through. To do this you will need a seed (any sort should work). If you don't have a seed you can visit this website (<https://bit.ly/3DIsYgg>) to see what happens when a seed gets water.

Part 1: Observations

You see many things in a day. When you take time to really examine them and to learn more it's called an observation. Use three of your five senses and then write everything you observe about your seed.

What do you see?

What do you feel?

What do you smell?

Part 2: Hypothesis

A seed is very small but with water, soil, sunlight, and space it can turn into a huge plant. What do you think will happen to a seed if you water it? Write down what you think in the space below.

GLOSSARY

Inventor - Someone who creates or produces (something useful) for the first time

Eventually - at some later time; in the end

Impact - a powerful or major influence or effect

Agriculture - the science or occupation of farming

Crop - a plant or plant product that is grown by farmers

MAPPING AND MOVING

Part 3: Experiment

Now you want to test out what you guessed – this is called an experiment. Put a few drops of water on your seed and write your new observations.

What do you see?

What do you feel?

What do you smell?

Part 4: Conclusion

By adding a little water you have already started the process for your plant to grow, which is called germination. This happens when the plant gets water and starts to use energy. Then the young plant inside wants to come out – this is called seeding. After seeding, the baby plant goes through a process called photosynthesis to become a big plant. Write what happened to your plant already and what you think will happen next.

Part 5: Think

Now that you know a little about seeds, use what you just learned to put the steps for a plant growing in order.

Part 6: Apply

If you would like to, plant your seed and write what you see each day for about two weeks!

THE PEANUT GALLERY

Instructions: Read the following word problems to learn more about how to grow peanuts and interesting facts about them, then answer the math questions.

1. Usually, one peanut plant produces between 25 and 50 peanuts. Let's say you buy three peanut plants and they each produce 40 peanuts. How many peanuts will you have altogether?
2. George Washington Carver learned that it is better for the soil when you grown peanuts every two years instead of every year. If you only grew one batch of peanuts each time but wanted to grow 12 batches, how long would it take?
3. To be able to grow, peanuts need 24-36 inches of space in between each plant. If you planted each plant 25 inches apart and you have 200 inches of land, how many peanut plants can you plant?

ANSWER KEY: (1) 120 (2) 24 years (3) 8

TAKE THE PLEDGE

I WILL HONOR
THE SACRIFICES OF
MY ANCESTORS.

I WILL BELIEVE
IN ME.

I WILL PURSUE
MY DREAMS.

I WILL HELP
OTHERS ALONG
THE WAY.