

9-12 American History George Washington Carver



Brooke Lewis-Slamkova
Apalachee High School Educator and [Maple Park Homestead](#) Farmer

Overview:

This lesson will challenge students to identify major contributions by George Washington Carver

(Time Needed: 3-4 class periods.)

Standards:

- SSUSH10 Identify legal, political, and social dimensions of Reconstruction.
 - a. Compare and contrast Presidential Reconstruction with Congressional Reconstruction, including the significance of Lincoln's assassination and Johnson's impeachment.
 - b. Investigate the efforts of the Bureau of Refugees, Freedmen, and Abandoned Lands (the Freedmen's Bureau) to support poor whites, former slaves, and American Indians.
 - c. Describe the significance of the Thirteenth, Fourteenth, and Fifteenth amendments.
- SSUSH17 Analyze the causes and consequences of the Great Depression.
 - a. Describe the causes, including overproduction, under consumption, and stock market speculation that led to the stock market crash of 1929 and the Great Depression.
 - b. Explain factors (include over-farming and climate) that led to the Dust Bowl and the resulting movement and migration west.

9-12 American History George Washington Carver



Objectives:

- Students will learn about key historical figure and his advancement in the fields of biology and economics primarily through his work with legumes.
- Students will list innovations by George Washington Carver and how they impact Georgia's economy today.
- Students will list other contributions and how they impacted the Reconstruction period and the Great Depression.

Materials:

- [Modern Marvels – George Washington Carver](#) – Full Film
- [Part 1](#)
- [Part 2](#)
- [Part 3](#)
- [Part 4](#)
- [Part 5](#)
- http://www.history.com/images/media/pdf/20060063_WashCarverGuide.pdf
- [Rubric](#)
- [Make Room for Legumes Study Guide](#)

Miscellaneous supplies:

- Chick-Fil-A wrapper, chocolate covered peanuts, and glycerin**
- To share with younger siblings:
<https://www.dm.usda.gov/oo/img/gwccb/GWC-ColoringBook.pdf>
**Check with your school nurse and students to determine if any students with food allergies exist in your classroom. Modify this lesson as needed. This may include not passing around allergenic food items or showing photos of the items instead of bringing them to class.

9-12 American History George Washington Carver



Lesson Plan:

- Engage: Start class by standing in the front of the room with a Chick-Fil-A Wrapper, chocolate covered peanuts, and vegetable glycerin. (You can use another combination of inventions that you'd like.) Have students brainstorm what all of these things have in common.
- Explore: Show students [Part 1](#) of Modern Marvels: George Washington Carver (or the show the documentary in its [entirety](#)). Using the [GWC study guide](#), have them take notes and jot down important facts. Have them return to the opening products and determine how all three items are related to GWC. (For example: Chick-Fil-A fries all of their foods in peanut oil, not possible without GWC's discoveries.)
- Explain: Tell students about [October Farm to School Month](#) and Make Room for Legumes. Explain to students that they will create posters sharing the importance of legumes with the school and their connection US History and the South at the turn of the century.
- Extend: Students will watch additional videos individually or as a class and gather additional information. They should focus not only on past inventions but how those discoveries are currently impacting technology today. They will create posters focused on GWC and his work with legumes. These should be visually appealing and informational. Students may present the works to the class or other classes for additional speaking and listening standards.
- Evaluate: Score posters based on rubric below or download it from materials list.

9-12 American History George Washington Carver



Presentation / Poster Rubric

Name: _____

Date _____

Skills	4	3	2	1	Score
Use of Time	Student uses their time to work productively and efficiently.	Students uses most of their time to work productively and efficiently.	Student uses some of their time to work productively and efficiently.	Student does not use their time to work productively and efficiently. Student is frequently off task.	
Pictures / Graphics	Pictures and graphics are clear and relevant.	Most pictures and graphics are clear and relevant.	Few of the pictures and graphics are clear and relevant.	The student's pictures are not clear or relevant.	
Required Elements	All of the required elements are clearly visible, organized and well placed.	Most of the required elements are clearly visible, organized and well placed.	Few of the required elements are clearly visible, organized and well placed. May be missing elements.	Missing most or all of the required elements.	
Visual Clarity and Appeal	The project has an excellent design and layout. It is neat and easy to understand the content.	The project has a nice design and layout. It is neat and easy to read.	The project needs improvement in design, layout or neatness.	The project needs significant improvement in design, layout and neatness.	
Content Spelling Grammar Punctuation	The project has excellent spelling, grammar, punctuation, and original content.	The project has 1-2 spelling, grammar, or punctuation errors with original content.	The project has 3-5 spelling, grammar, or punctuation errors with original content.	The project has multiple spelling, grammar, or punctuation errors. Some content is copy and paste or plagiarized.	

Comments: _____

Total Score:	
---------------------	--

20= 100%	19= 95%	18= 90%	17= 85%	16= 80%	15= 75%	14= 70%	13= 65%	12= 60%	11= 55%
----------	---------	---------	---------	---------	---------	---------	---------	---------	---------

9-12 American History George Washington Carver



A "Short" List of Peanut By-Products Discovered by G. W. Carver:

Peanut Punch	Flavoring Paste
Peanut Beverage Flakes	Meat Substitutes
All Purpose Cream (cosmetic)	Peanut Brittle
Antiseptic Soap	Peanut Cake
Baby Massage Cream	Peanut Flour
Face Bleach and Tan Remover	Peanut Popcorn Bars
Facial Lotion	Peanut Relish
Facial Powder	Peanut Tofu Sauce
Glycerine	Salad Oil
Hand Lotion	Vinegar
Peanut Oil Shampoo	Worcestershire Sauce
Shaving Cream	Castor Oil Substitute
Tetter and Dandruff Cure	Emulsion for Bronchitis
Vanishing Cream	Iron Tonic
30 different Dyes for Cloth	Laxatives
19 different Dyes for Leather	Axle Grease
17 different Wood Stains	Charcoal (from the shells)
Hen Food (from the peanut hearts)	Diesel Fuel
3 different kinds of Stock Food	Gasoline
Bar Candy	Glue
Caramel	Insecticide
Chili Sauce	Linoleum
Chocolate Coated Peanuts	Lubricating Oil
Curds	Nitroglycerine
Dry Coffee	White Paper (from the vines)
	Printer's Ink
	Plastics
	Rubber
	Laundry Soap
	Sweeping Compound

9-12 American History George Washington Carver _____



 **GEORGIA ORGANICS**

High School

GA Standards

 20 min

farmtoschool.georgiaorganics.org

[#makeroomforlegumes](https://twitter.com/makeroomforlegumes)