



#18

Community Food Map



PUZZLE: CREATE A COMMUNITY FOOD MAP

STANDARDS & CONNECTIONS: NGSS.3-5-ETSI, NGSS.MS-ETSI, CCSS.ELA-LITERACY.SL.9-10.4

SUGGESTED MATERIALS: Access to the internet, poster paper, colored markers/pens, glue, scissors

BACKGROUND: The United States Department of Agriculture (USDA) estimates that 40 million people live in neighborhoods without easy access to fresh, affordable, and nutritious food options. Accessing healthy food can mean multiple bus rides while carting groceries and children, or scrambling to find someone with a car who is willing to drive to the nearest market. This problem affects residents in both urban and rural parts of the US. It is estimated that 4.6 million people live in rural areas without access to a full service grocery store. These areas are greatly in need of reliable transportation, in addition to the jobs and economic activity that grocery stores and healthy food retail can provide.ⁱ Community food mapping involves finding out where people can buy, grow and eat food in a local area. The information might be displayed on a physical map, a digital version or some other visual representation of the area.ⁱⁱ

1. IDENTIFY: Share the background information with the students, then share the puzzle to be solved. Determine constraints (e.g., time allotted, space, materials provided, etc.) and divide students into small groups.

2. IMAGINE: Ask a series of questions to help students brainstorm solutions to the puzzle. Encourage students to list all ideas – don't hold back! Before moving on, make sure each group selects a solution that fits within the constraints.

- Ask: *How can you solve this puzzle? Which of your ideas can you build a prototype for given the constraints?*

3. DESIGN: Students diagram the prototype, identify the materials needed to build the prototype, and write out the steps to take. Students describe the expected outcomes.

- Ask: *What steps will you take to create your solution? What do you expect your solution to look like and be able to do?*

4. CREATE: Students follow their design plan and build their prototypes. Monitor their progress and remind them about how much time they have.

5. TEST & IMPROVE: Students evaluate their creation and compare it with the expected outcomes. Students seek areas of improvement and make changes where needed.

6. SHARE: Students share their solution to the puzzle and communicate lessons learned.

- Ask: *What was your biggest takeaway? What would you do differently?*

ADDITIONAL RESOURCES: For more background information on this topic, please visit www.purpleplow.org.



Have students research a policy that could be changed or enacted to improve food access in their communities.

ⁱ Sustain. (n.d.). *Food mapping*. Retrieved from <https://www.sustainweb.org/foodcooptoolkit/foodmapping>

ⁱⁱ Healthy Food Access Portal. (2018). *Making the case*. Retrieved from <http://www.healthyfoodaccess.org/access-101/making-the-case>