Lesson Plan for Booming Bacteria
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Important Takeaways from Activity:

1. Explain the nature of some diseases and how they can disseminate rapidly if people do not acquire immunity.
2. Show how vaccines help protect against germs

Iowa CORE Standards for Booming Bacteria:

21.K–2.HL.1

Understand and use basic health concepts to enhance personal, family, and community health.

21.K–2.HL.2

Understand and use interactive literacy and social skills to enhance personal, family, and community health.

21.K–2.HL.3

Recognize critical literacy/thinking skills related to personal, family and community wellness.

21.K–2.HL.4

Identify influences that affect personal health and the health of others.

21.K–2.HL.5

Demonstrate behaviors that foster healthy, active lifestyles for individuals and the benefit of society.

Cool links to check out!

https://www.youtube.com/watch?v=5SproXmRUkI

https://billnye.com/the-science-guy/germs

https://kidshealth.org/en/kids/guide-shots.html

Activity Description:

The day will begin by introducing me, Brianna, and Aubree and then settling into a comfortable space that can hold everyone (classroom, gym, etc.). I will then ask the children what they know about germs or what they think they are to get an idea of how they perceive these pests. I will then segway into asking what they thought when they got a shot and why they got a shot in the first place. This will give me an idea of what they think of shots (these questions will be revisited after the activities of the day). This will lead me to showing a video demonstration similar to what we will be doing today with the Coca-Cola and candies. After the video, we will take the children outside to set up the activities!

Tables will be set up with small Coca-Cola bottles of soda set up at each table. There will also be 4 types of candy set up next to each bottle of Coca-Cola that the children will be using in this activity. Children will be split up into groups of 4-5 (depending on how many total children there are) and will work together to figure out which candy produces the biggest reaction! We will go over a demonstration (with a less reactive candy) of how children should carry out the activity. I will distribute worksheets before the children participate in the activity to complete some of the sections and then let them do the activity. After the activity is over, everyone will gather to clean up any messes and throw away all bottles and candies. The last thing to do for the day will be to go over the rest of the worksheets and have children bring these home!

After wrapping up the activities there will also be time for children to tell me what they found out in their experiment and which candy gave the biggest reaction. I will also ask why we should get vaccines and the children hopefully will make the connection that germs can spread everywhere, even in thin air!

Timeline for Booming Bacteria:

3:45 --> Arrive at Lucas Elementary

3:50 --> Presentation about vaccines and why we get them. Ways germs can spread will be covered as well. I will end the discussion with a sample video

4:00 --> Have children fill out some of the worksheet

4:05 --> Have children run the experiments with Coca-Cola and candy!

4:35 --> Have children fill out the rest of their worksheet. Clean up and close up shop.

4:45 --> Depart Lucas Elementary