

SOAK IN THE COKE!

Teacher Directions



Health

Science

This activity lets students see for themselves how soda can eat away at their teeth... in only 24 hours! Try it out in class or at home!

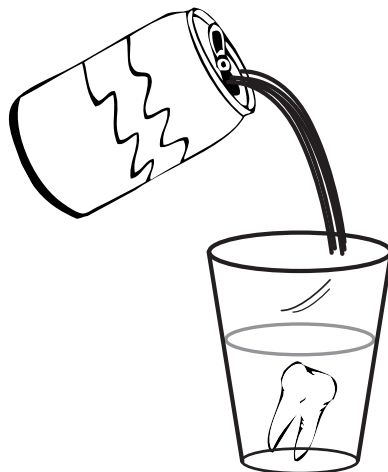
Objective: Students will participate in an experiment showing how soda can eat away at our teeth, making it easy for cavities to form.

Directions:

1. Ask a dentist for a tooth or use a baby tooth if available*.
2. Have students examine the tooth and draw a “before” picture of it on their activity sheet.
3. Then, put the tooth into a glass of cola and soak for 24 hours.
4. In full view of students, take out the tooth and examine it. Have students draw an “after” picture of the tooth on their activity sheet.

Note: In this experiment, the phosphoric acid from the soda eats away at the tooth enamel, and the soda’s caramel brown coloring discolors the tooth. When a person drinks soda throughout the day, their teeth are bathed in sugar water and phosphoric acid. The bacteria in the mouth feed on the sugar and produce additional acids, which eat away at the teeth, causing cavities.

*You can also try this experiment with an iron nail or a chicken bone!



SOAK IN THE COKE!



Name: _____

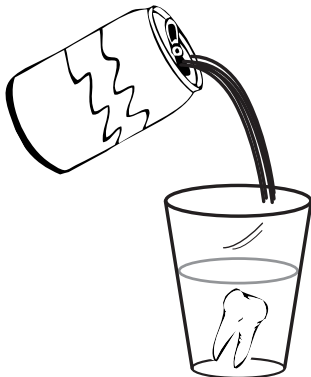
See for yourself how soda can eat away at your teeth..in only 24 hours!

1. Ask a dentist for a tooth or use a baby tooth if available*.
2. Examine the tooth and draw a "before" picture of it.
3. Put the tooth into a glass of cola to soak for 24 hours.
4. Take out the tooth and examine it. Then draw an "after" picture of the tooth. What's different?

Note: In this experiment, the phosphoric acid from the soda eats away at the tooth enamel, and the soda's caramel brown coloring discolors the tooth.

When a person drinks soda throughout the day, their teeth are bathed in sugar water and phosphoric acid. The bacteria in the mouth feed on the sugar and produce additional acids, which eat away at the teeth, causing cavities.

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Before picture

Draw a picture of the tooth before soaking it in cola.

After picture

Draw a picture of the tooth after taking it out of the cola.

What happened to the tooth after soaking it in cola? _____