

Are All Tooth Whiteners the Same?

The challenge for your group is to design an investigation comparing two types of tooth whiteners. Remember that this has to be a fair test. You must control all of the variables except the one you are testing.

Safety Precautions

- Tooth whiteners contain chemicals that can damage clothing, leather, or fabrics.
- Wash your hands and clean up the work area at the end of the activity.

What You Need

brown egg (hard-boiled)
tooth whitener strips or paste
permanent marker

What to Do

1. What question will you investigate?

2. What do you think will happen?

3. Read the safety precautions found on the package of tooth whitener. Then list the safety precautions for your investigation.

Name: _____

Date: _____

BLM 15-5

(continued)

- 4.** List the steps that you will follow in your investigation. Hint: You should be able to see a change in the colour of the egg in 3 or 4 days.

Step 1: _____

Step 2: _____

Step 3: _____

Step 4: _____

- 5.** Make sure your teacher approves your investigation before you begin.

What Did You Observe?

- 6.** Record your observations each day for 5 days. You may want to include a series of coloured illustrations or digital photographs of your egg. This will help you remember what happened.

Name: _____ Date: _____

BLM 15-5
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What Did You Discover?

7. What is the answer to the question you investigated?

8. Do all tooth whiteners produce the same results? Explain.

9. What did your group do to ensure that this was a fair test?

10. How would you improve this investigation if you were to repeat it?

11. How could you improve your contributions next time you work in a group?
