

You will need:

- An egg (raw—so wash your hands after handling)
- 10 toothpicks
- A large sheet of aluminum foil
- A needle



Why are we making stink bombs? In today’s Zoo EDventure you met our animal ambassador, Stinker (a skunk). Skunks use their scent glands to expel a stinky spray to ward off predators. Their glands produce sulfur-based chemicals called thiols. The smell is very similar to rotten eggs. We use eggs and match heads to make our stink bombs because both eggs and matches contain sulfur.

Adults please supervise children during this activity for safety.
Children please make sure you have an adult’s permission before doing this activity.

Directions:

1. Get an adult to help you use the needle to punch 10 holes in the raw egg.
2. Put a toothpick into each hole.
3. Cover half of the egg with the 10 toothpicks in it with aluminum foil.
4. Place in a sunny spot where it won’t be disturbed.
5. After a day, take the egg outdoors. (If you wait for several days, the stink will be worse!). Take off the aluminum foil and toothpicks.

Take a whiff—how bad is the smell? Rate the stink a number between 1 and 10 with 10 being the worst.



Steps 1 & 2



Step 3

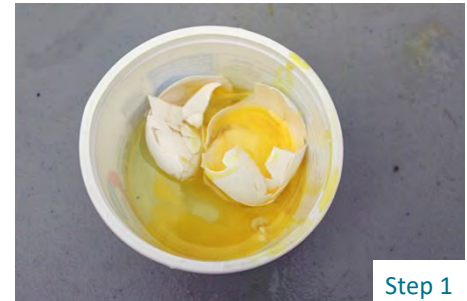
Once you have tried all 3 recipes, pick which one was the worst smelling. Why do you think that is? Was the amount of time you waited a factor?

You will need:

- An egg (raw—so wash your hands after handling)
- 1 tablespoon of milk
- 1 tablespoon of white vinegar
- A disposable container like an old yogurt or sour cream tub

Directions:

1. Break your egg into the container.



2. Add 1 tablespoon of milk—must be dairy milk.



3. Add 1 tablespoon of white vinegar.



4. Put the top on the container.

5. Place in a sunny spot where it won't be disturbed.

6. After a day, take the container outdoors. (You can get more stink if you wait several days!) Carefully take off the lid.

Take a whiff—how bad is the smell? Rate the stink a number between 1 and 10 with 10 being the worst.

You will need:

- A disposable bottle like a 16 oz water bottle (empty and clean with the top)
- A book of matches (ask a grown up)
- Scissors
- Household ammonia (again, ask a grown up)

Directions:

1. Use the scissors to cut the match heads off.



Step 1

2. Add the match heads to the empty bottle.



Step 2

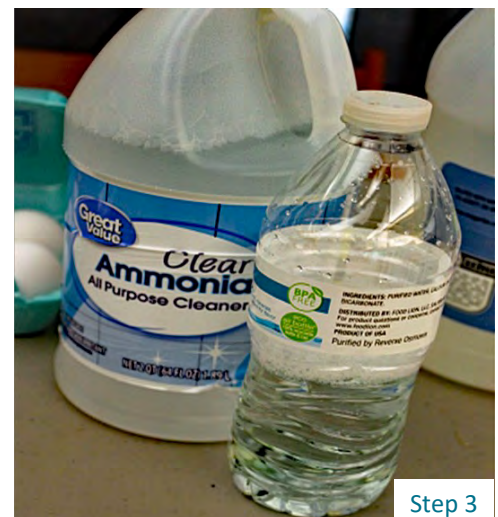
3. Fill the bottle half full with the ammonia.

4. Put the top on the bottle.

5. Place in a sunny spot where it won't be disturbed.

6. After a day, take the bottle outdoors. You can get more stink if wait several days. Carefully take off the top.

Take a whiff—but not too big a whiff—ammonia is a strong chemical! How bad is the smell? Rate the stink a number between 1 and 10 with 10 being the worst.



Step 3

Which stink bomb was the worst? Share your results on our Facebook page “Adventures in EdZooCation” or tag the North Carolina Zoo at #NCZOO or #NCZOOED.