

Please cut out this card before putting it in the raffle box.

UNLEASH THE BEAST

Summer at the Bolton Public Library

Complete 2+ activities. Write your name, age, town, and phone number on the back, and return this card to the Ages 8-12 raffle box at the library for a chance to win!

Delightfully Disgusting Ages 8-12

READ

Anything about
Animal Poop,
Puke, Spit,
Sweat, etc.

WATCH

Camel Dung was the
First Probiotic at
[tinyurl.com/watch
cameldung21](http://tinyurl.com/watchcameldung21)

STEM

Experiment
with
Stomach Acid

CRAFT

Make your
own Slime

Delightfully Disgusting Book List

You can read or listen to any book, part of a book, magazine article, or audiobook to check off the Read square of your activity bingo. Both fiction and nonfiction titles count.

Here are some nonfiction titles we recommend:

- *The Blobfish Book* by Jessica Olien (J 591.77 OLI)
- *What Do They Do With All That Poo?* by Jane Kurtz (J 591.5 KUR)
- *Ick!* by Melissa Stewart (J 591.5 STE)
- *Get the Scoop on Animal Puke!* by Dawn Cusick (J 591.5 CUS)
- *The Truth About Poop* by Susan E. Goodman (J 612.3 GOO)
- *Animal Tracks & Signs* by Jinny Johnson (J 599 JOH)
- *Who Gives A Poop?* By Heather L. Montgomery (J 612.36 MON)
- *What Breathes Through Its Butt?* by Emily Grossman (J 500 GRO)
- *Oh, Ick!* by Joy Masoff (available through interlibrary loan)

Or check out these cool Wonderopolis articles online:

- *How Do Bees Make Honey?* -
wonderopolis.org/wonder/how-do-bees-make-honey
- *Do Cows Really Have Four Stomachs?* -
wonderopolis.org/wonder/do-cows-really-have-four-stomachs
- *Why Do Skunks Stink?* - wonderopolis.org/wonder/Why-Do-Skunks-Stink

Or check out these cool *Moment of Eww!* photo slideshows from National Geographic Kids online:

1. tinyurl.com/momentofew1
2. tinyurl.com/momentofew2
3. tinyurl.com/momentofew3

DIY Slime

From familyeducation.com

CAUTION: THIS CRAFT REQUIRES A MICROWAVE. ADULT SUPERVISION RECOMMENDED.

Materials:

- Psyllium husk powder
- Water
- Microwave
- Microwave safe bowl
- Spoon

HOW TO MAKE SLIME

1. In a large microwave safe bowl, add 1 tablespoon of psyllium husk powder to 1 cup of water.
2. Stir well.
3. Microwave for about 5 minutes.
 - a. **DO NOT WALK AWAY!** The mixture will rise as it heats up and it may bubble over the edge of the bowl if you're not careful.
 - b. If the mixture starts to bubble over, pause the microwave and then restart it.
4. Let your slime cool before you play with it!

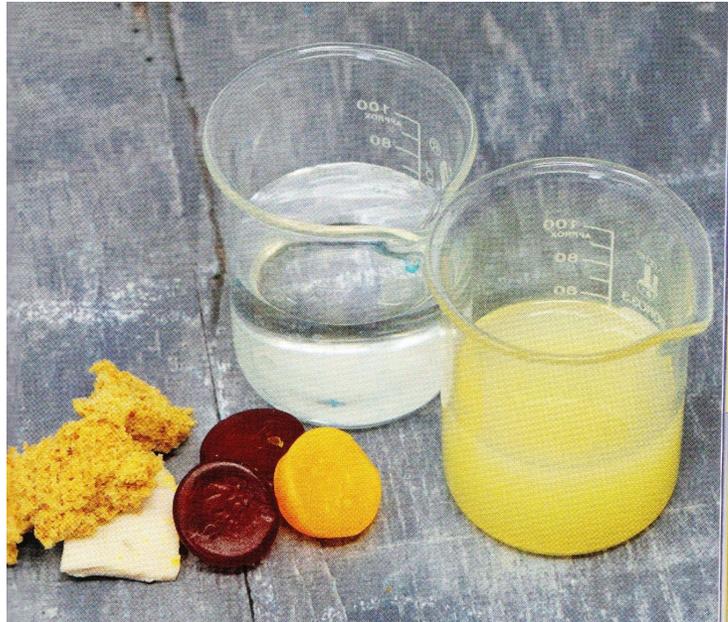


Stomach Acid

From *Gross Science Experiments*
by Emma Vanstone

Materials:

- Masking Tape
- Marker
- 3 cups or containers
- Measuring cup
- Spoon
- White vinegar
- Lemon juice
- Water
- 3 identical pieces of bread
- 3 identical pieces of lettuce
- 3 identical pieces of cooked meat

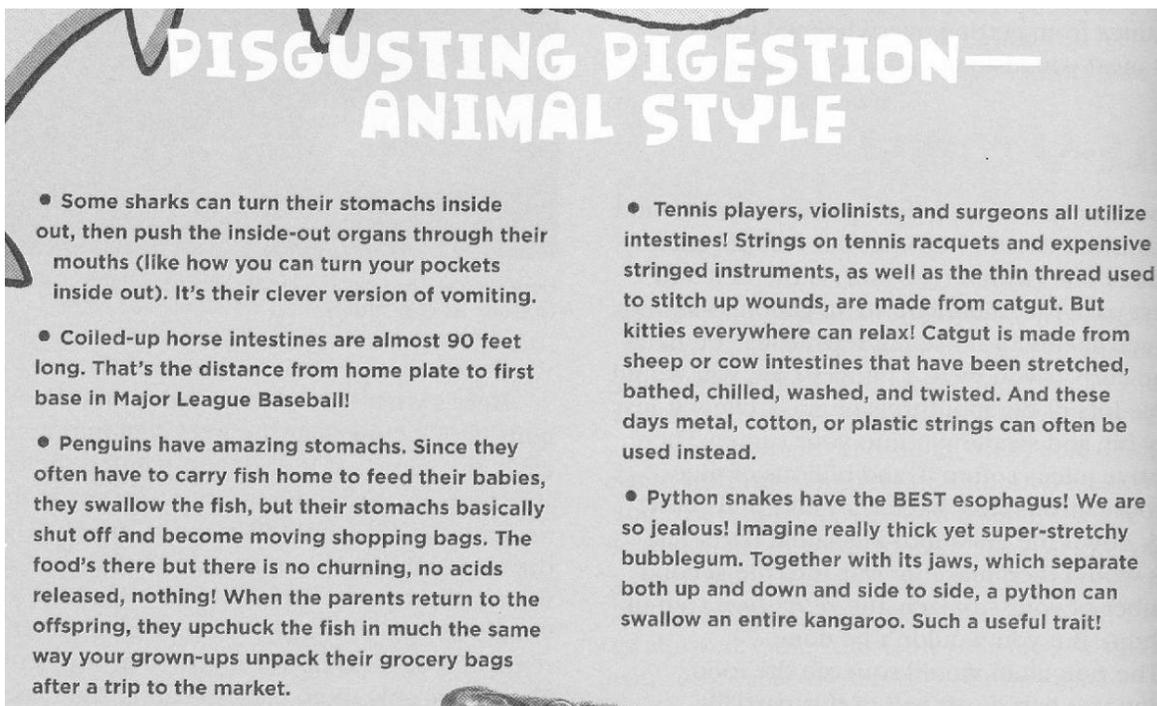


HOW TO RUN THE EXPERIMENT

1. With masking tape and marker, label one cup water, the second, lemon juice, and the third vinegar.
2. Add 1 piece of bread, 1 piece of lettuce, and 1 piece of meat to each cup.
3. Use a measuring cup to add water to the first cup, lemon juice to the second cup, and vinegar to the third cup. Make sure that the amounts of the different liquids are equal and that there is enough liquid to cover the food.
4. Let your experiment sit for 5 days. Check on it and make notes every 24 hours.
5. What happened to the different pieces of food? How long did it take? Did the changes happen differently in different cups?

THE SCIENCE OF STOMACH ACID

- Most animals produce stomach acid, also called gastric acid, to digest their food and kill off bad bacteria and microorganisms that an animal might swallow. The acid breaks down the food with help from contractions from stomach muscles, turning it into a half-liquid, half-solid goop called chyme.
- Scientists measure the strength of acids using the pH scale. On the pH scale, a score of 0 is the strongest acid. Conversely, water, a neutral and non-acidic substance, scores a 7.
- Human stomach acid can score anywhere between 1.5 and 3.5 on the pH scale. Llama stomach acid scores a weak 7.0 (which technically doesn't make it an acid at all). Vulture stomach acid is a highly corrosive 1.0!
- The liquids in our experiment stood in for stomach acids with different pH levels. Water has a pH of 0 (like llama stomach acid). White vinegar has a pH of 2.5 (like snowy owl stomach acid). Lemon juice has a pH of 2 (rabbits have a stomach acid pH of 1.9).



From *Oh, Ick!* by Joy Masoff



THE KEY TO THE SCAT KINGDOM



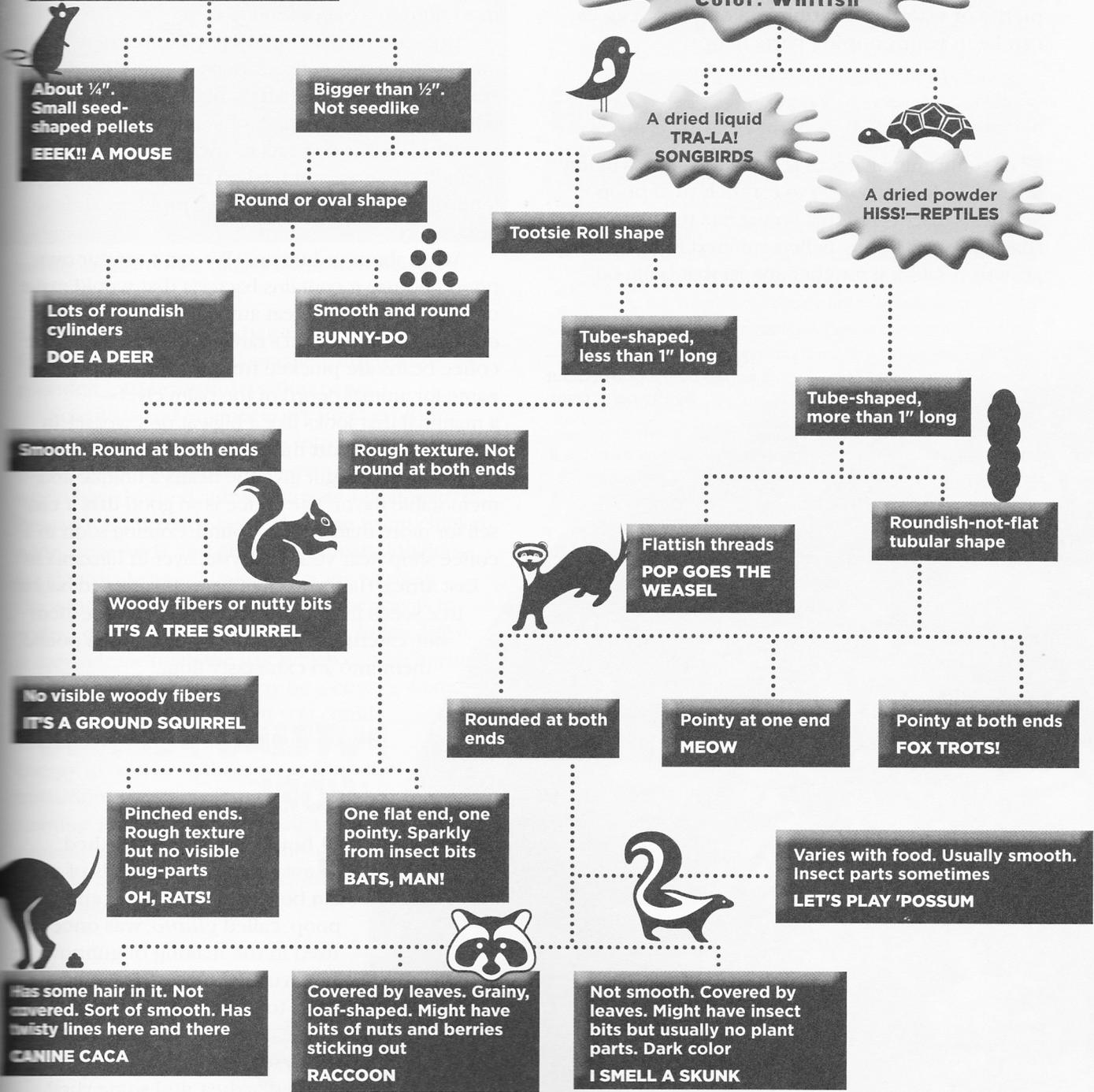
Here's how to identify the differently shaped butt gifts of our feathered, scaled, and furry friends.

SOLID SHAPE

Color: Black • Brown

SPLAT-SHAPED FLUID

Color: Whitish



FUN ANIMAL FECAL FACTS

- The biggest poop award goes to the biggest animal, the blue whale! They leave bright orange skid marks, the length of a school bus, in the sea.
- African elephants can poop around 300 pounds a day! That's the same weight as three or four kids.
- Can you shoot your poop 6 feet across the room? No? The tiny (inch-and-a-half-long) skipper caterpillar can!
- A goose typically poops once every 12 minutes (and yes, they can poop while flying).
- When you pick up a pet rat prepare to be pooped on. That's one way rats defend themselves, because an animal in the wild would be less likely to eat something that just dropped a stink bomb.
- Dung beetles are not only adorable, they love poop! They search out poop, roll it into balls (sometimes larger than the beetles themselves), and munch on the balls later or use them to lay their eggs inside. When the babies hatch, they can eat their cozy dung crib. Food and furniture all in one!

Twelve Ways to Say YOU GOTTA GO!!!

Say good-bye to Winnie the Pooh

Serve up a Poo-Poo Platter

code brown

Gotta go boom boom

Drop some friends off at the pool

Tickets to the Super Bowl

Say good-bye to Mr. Brown

Do a doo-doo

Number 2

Go make brownies

Bake the brown biscuit

Pinch a loaf

dreaded *diarrhea*) or if you eat a ton of green veggies. Is your poop yellow and a little shiny? That sometimes happens if you have eaten a deep-fried meal and your poop contains a lot of fat. It can also be a sign of a serious disease, so ask your doc if you see yellow. If your poop is bright red or black (and you haven't recently gorged on beets or red food coloring), go see a doctor right away. Blood in your poop is no joke. (Black poop means there is bleeding farther up in your intestines.)

BOWEL HABITS

How long does it take food to wend its way through your digestive system and come out the other end? You can find out for yourself. Corn kernels are very difficult for the human gut to break down. Figure out your body's "transit time" by munching some corn on the cob and then seeing how long it takes to come out the other end. One day? Two? Longer? Keep track of the doo-ings.