



SAFETY INFORMATION





WARNING:

CHOKING HAZARD — Small parts. Toy contains a small ball. Not for children under 3 yrs.

Children under 8 yrs. can choke or suffocate on uninflated or broken balloons. Adult supervision required. Keep uninflated balloons from children. Discard broken balloons at once.

The dye tablet may cause stains that can't be washed out of clothing. Keep all tablecloths, curtains, and carpets away from the experiment area. The child should wear old clothes when working with the dye tablet.

Have any questions? Missing any parts? Want to share a story? Our tech support team will be glad to help you!

Warning! Not suitable for children under 3 years. Choking hazard — small parts may be swallowed or inhaled.

Keep the packaging and instructions as they contain important information.

WARNING! Children under eight years can choke or suffocate on uninflated or broken balloons. Adult supervision required. Keep uninflated balloons away from children. Discard broken balloons at once. Made of natural rubber latex, which can cause allergies. Use a pump to inflate the balloons.



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Part No.	Description	Quantity
1	Back body shell	1
2	Front body shell	1
3	Base	1
4	Back skeleton	1
5	Upper arm	1
6	Forearm	1
7	Arm pin	1
8	Rubber band	1
9	Syringe with clip	1
10	Red dye tablet	1
11	Circulatory system	1
12	Digestive track back	1
13	Digestive track front	1

Part No.	Description	Quantity
14	Intestine tube	1
15	Small ball	1
16	Lungs container	1
17	Lungs balloon	1
18	Diaphragm balloon	1
19	Brain tray	1
20	Squishy brain	1
21	Hat with propeller	1
22	Fart whistle	1
23	Flexible tube	1
24	Sticker sheet	1

YOU WILL ALSO NEED: SCISSORS, WATER, SMALL CUP







INTRODUCTION



WELCOME TO THE WOW-TO GUIDE FOR YOUR AMAZING HUMAN BODY KIT!



MINDY THOMAS
(WOW IN THE WORLD HOST)

THIS GUIDE WILL SHOW YOU HOW TO PUT YOUR BODY MODEL TOGETHER AND HOW TO ACTIVATE ALL OF ITS WORKING PARTS ...

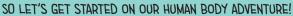
GUY RAZ
(WOW IN THE WORLD HOST)



... FROM MUSCLES THAT FLEX TO A BUTT THAT FARTS!



AND DON'T FORGET TO USE THE QR CODE BELOW TO LISTEN TO SOME BRAIN-TINGLING SCIENCE FACTS FROM US.







Wow in the World is the #1 kids' science podcast, hosted by Guy Raz and Mindy Thomas!







- 1 Grown-ups! Scan this QR code to start your **audio journey.**
- 2 Listen to **Track 1,** a Wow in the World Bonus Episode!
- 3 Unlock exclusive **Wow Facts** from Guy & Mindy when you see this symbol in the guide!

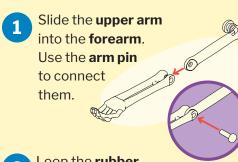




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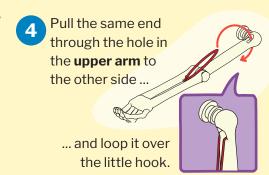
MUSCLES AND BONES



Loop the rubber band around the little tab in the forearm.

Pull one end of the **rubber band** through the other.





5 Bend the **forearm** up and down. What do you notice?

Flexing Your Muscles

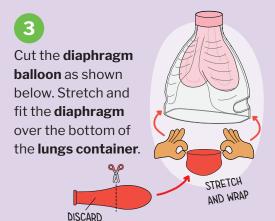
When you extend the forearm down, the rubber band stretches. When you let go, the rubber band contracts and pulls the forearm back up. The rubber band represents the **muscles** in the upper arm. Both rubber bands and muscles have elasticity, meaning they can stretch and contract.

A muscle is a soft tissue that contracts and relaxes to produce movement. Some muscles are connected to **bones**. Muscles are made of thousands of muscle fibers, which are long cells that contract when they receive signals from the nervous system.

LUNGS Push the lungs balloon through the lungs container from the bottom, pulling it out from the top.



Stretch the lungs balloon over the top of the lungs container to fix it in place.





Pinch the diaphragm in the center and pull it downward. What do you observe?



"Your powerful lungs"





When you pull down on the diaphragm, you can see the **lungs** inflate! The diaphragm is a thin, dome-shaped muscle that separates the chest cavity from the abdominal cavity. When you inhale, the diaphragm contracts and flattens, which increases space in your chest cavity. This creates a vacuum that pulls air through your nose and mouth into your lungs.

Your lungs aren't actually like balloons — they are more like delicate sponges with countless small air sacs that take oxygen from the air and put it in the blood, and remove carbon dioxide from the blood and put it in the air.

DIGESTIVE TRACK

1 Attach the intestine tube to the digestive track back.

Place the small ball in the top right corner of the digestive track back.

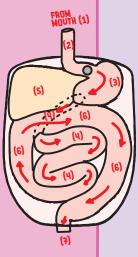
Close the digestive track by snapping the digestive track front to the digestive track back.



A Long and Winding Road

The ball represents a piece of food at the start of the maze and poop by the end! The maze itself is a model of the human **digestive track** — a long, winding tube that goes through the body, from mouth to anus. As food travels along the digestive track, it is broken down, or digested, through chemical and physical processes, enabling nutrients from the food to be absorbed into the body.

FOOD TS FTRST BROKEN DOWN TN THE MOUTH (1) WITH CHEWING AND SALIVA. THE FOOD MOVES DOWN A MUSCULAR TUBE CALLED THE ESOPHAGUS (2). ACIDS AND ENZYMES IN THE STOMACH (3) BREAK THE FOOD DOWN INTO CHYME, A THICK LIQUID. NUTRIENTS FROM THE CHYME ARE ABSORBED BY THE WALLS OF THE SMALL INTESTINE (4). THE LIVER (5) AND PANCREAS PROVIDE MORE DIGESTIVE JUICES TO THE SMALL INTESTINE. WATER AND ELECTROLYTES ARE REMOVED FROM REMATHTHE CHYME IN THE LARGE INTESTINE (6). UNDIGESTED MATERIAL (FECES, OR POOP) IS STORED UNTIL IT IS ELIMINATED THROUGH THE ANUS (7).





"What goes in must come out"

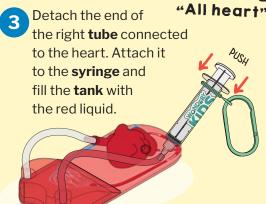
HEART & CIRCULATORY SYSTEM



Cut the **flexible tube** in half. Connect the **tubes** to the **circulatory system** as shown.



Dissolve the **red dye tablet** in a cup of water.
Fill the **syringe** with the red liquid.



Press down gently on the **heart** to pump the **red liquid** through the **tubes**.



Get Your Blood Pumping



This model of the **circulatory system** shows in a simplified way how the heart pumps blood around the body. In the circulatory system, the heart pumps blood to the lungs, where the blood picks up oxygen. The oxygen-rich blood is then pumped all around the body, where it can be put to

work. The oxygen-depleted blood is then pumped back to the lungs to be oxygenated again. As in the model, the blood in the body travels through tubes, which are called blood vessels. And, like in the model, the blood only travels in one direction through the blood vessels.

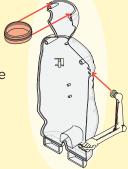


THE AMAZING HUMAN BODY

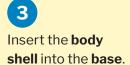
Place the **skeletal** arm in the arm socket and slide the

brain tray into the

back body shell.



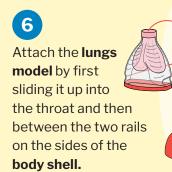
Snap the **front body shell** and **back body shell** together to lock the brain tray and arm in place.





Attach the back skeleton by pressing it onto the small pegs in the back.

Insert the circulatory system in front of the back skeleton.



CONTINUED ON NEXT PAGE

THE AMAZING HUMAN BODY

Place the digestive system below the lungs, tucked behind the three tabs on the bottom and sides of





Place the **brain** inside the head and cover it with the hat on top. The hat snaps onto the head to stay in place. Place the fart whistle in the recessed area on the rear side of the base.



Add eyes, a mouth, and other decorations to your **Amazing Human Body** with the stickers! Choose eyes and a mouth for the face. Place the arm muscle sticker inside the model's right arm area and the brain sticker in the brain tray.



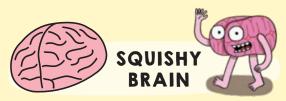




Supermodels of Science

This Amazing Human Body is a scientific model. It is a simplified representation of the human body, made for the purpose of teaching about some of the major body systems and organs. All scientific models have limitations. This model does not include every body part and all of the included body parts have been

simplified. It also cannot show the tremendous diversity in the human species. We made the "skin" clear so you can see inside. In reality, human skin has a huge range of different colors.



Squeeze the **model brain!** The real brain is soft and squishy because it's mostly made of water and fat. This softness allows it to function efficiently by transmitting electrical and chemical signals between brain cells called neurons. The squishy brain needs the skull and a layer of fluid around it to keep it safe.



Move the **skeleton** into a completely dark room and see how it glows in the dark! This is mostly just for fun, but real bones can glow in the dark under special lights, like UV light, because they contain phosphorus and calcium. These minerals absorb light energy and can shine faintly. Scientists use this trick to study bones! But normal bones don't glow on their own — you need the right kind of light to see it.



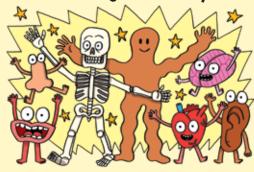


Blow through the **fart whistle!** The fart whistle models how actual farts make noise. Farts happen when gas builds up in the intestines and needs to escape. This gas comes from swallowed air and bacteria breaking down food. When a fart comes out, it makes noise by vibrating the skin around the anus. The speed and tightness change how loud it sounds.





Many different parts make one amazing human body!



- 1. Add more rubber bands to the arm. How does this affect the strength of the arm?
- 2. Measure your pulse at rest and after exercise. How does exercise affect your heart rate?
- 3. Put a cracker in a plastic bag with some vinegar and mush it up to make a stomach model.



Scan this QR code to KEEP THE WOW ROLLING with additional educational resources related to this item.

This kit was completed by:

X

Write your name(s) in the spaces below.

X

X

PLAY IT

X.

When you are done playing and learning with this toy, we encourage you to pass it on to another curious kid!

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