



Learning Project TERM 6, WEEK 6 3 WEEK TOPIC: Burps, Bottoms and Bile What would happen if you ate a book?

Age Range: Y3/4

Weekly Maths Tasks (Aim to do 1 per day)

ONLINE: Watch the videos from the White Rose Home Learning website below and complete the worksheets attached to this pack. This week's topic is measures. It is a Year 3 topic but useful revision for Year 4 as well.

The worksheets attached can be completed in line with the videos. Some of the worksheets have 3 levels (on 3 separate pages) of questions for each day so don't feel you need to complete all questions. Year 4s may wish to try the second or third page of the worksheets — the 'going deeper' sections.

Years 3 and 4:

Monday: Week 11 Lesson 1 Measure Mass Tuesday: Week 11 Lesson 2 Compare Mass Wednesday: Week 11 Lesson 3 Add and

Subtract Mass

Thursday: Week 11 Lesson 4 Measure

Capacitu

Friday OFFLINE: try the Maths Challenges (worksheets attached) or practise times tables!

SKILLS PRACTICE:

- ONLINE: Work on <u>Times Table Rockstars</u>.
- ONLINE: Daily <u>arithmetic</u> for different areas of maths.

Weekly Reading Tasks (Aim to do 1 per day)

- ONLINE: Read the book The Incredible Book-Eating Boy. You can listen to it being read on You Tube.

 Discuss these questions with someone at home, or write your thoughts in a reading journal:
 - 1. Henry starts by eating a single word and then a whole sentence. If you could eat any word / sentence, what would it be?
 - 2. Look at the backgrounds in the illustrations. What types of books might they have come from?
 - 3. What vocabulary could you use to describe how a book tastes? Imagine that you could eat a book about your favourite topic. Write a description of how it tastes.
 - 4. Watch <u>this video</u> from the author. Think of questions that you might like to ask if you had the chance. You could even tweet your questions to @OliverJeffers!
 - 5. If you liked this book, check out some of Oliver Jeffers's other books. You can hear him read many of his books on his website. Which ones are your favourite? Why?
- OFFLINE: Why did eating books make the boy feel ill? Read the text about your digestive system and answer the questions to find out.





St. Giles CE Primary School

Achieving Through Adventure



Weekly Spelling, Punctuation and Grammar Tasks (Aim to do 1 per day)

- OFFLINE: Practise the Year 3/4 Common Exception Words see list here
- ONLINE: Practise weekly spellings on Spelling Shed.
- ONLINE: Revise your grammar and spelling on the BBC game <u>Crystal Explorers.</u>
- ONLINE: Learn about how to write a letter at <u>BBC Bitesize</u>. Watch the videos about using paragraphs and questions, and look at the top tips to remind yourself how to set out a letter.



Weekly Writing Tasks (Aim to do 1 per day)

Focus: Story / Letter Writing

- ONLINE: Listen to the story of The Incredible Book-Eating Boy on <u>You Tube</u>. Then choose some of these writing activities:
- OFFLINE: Look at the examples of formal letters in this pack. Highlight examples of formal language. Make a list of the features of a formal letter. These examples are letters of complaint. How would your letter be different if you were writing to ask for advice?
- OFFLINE: Imagine you are Henry's parents. How do you feel about him eating lots of books? Write a formal letter to his doctor to ask their advice. There are some instructions in this pack to remind you how to set out a formal letter and some grammar activities at BBC Bitesize.
- Write the doctor's reply to Henry's parents.
 Remember to keep your writing formal! What would they suggest? You could include some information about how the digestive system works and what a balanced diet looks like.



• OFFLINE: Plan and write a new story about a boy or girl who eats things that people don't normally like to eat! Remember that a story needs a beginning, a build-up, a problem and a resolution and ending.



Learning Project - to be done throughout the week

Science: How does our body digest food?

- Watch the Kids Health animation <u>How the Digestive System Works</u> on YouTube. Make a flowchart to show each place your food visits on its journey through your body. Then make notes on what job each part does.
- Cut out the cards in this pack and match the picture, name and function of the different parts of the digestive system. Find out more information at <u>DK Find Out</u>. Once you have matched the cards, sort them into the correct order.
- Compare the human digestive system with animal digestive systems. Read *The Story of the Little Mole who knew it was None of his Business* by Werner Holzwarth and Wolf Erlbruch. What do you notice have the poo of different animals? Match the pictures of animal poo to a picture card of an animal. Construct a classification key for the identification of an animal by its poo. Use simple 'yes' and 'no' questions, such as 'Is it brown? Does it contain fur? Is it wet or dry?'
- Go for a walk and see if you can spot any animal poo. Can you use your classification key to help you identify it?
- Use the information cards in this pack to research and compare the digestive system of a human with that of either a cow, rabbit, lion, chicken, owl, snake, horse, fly, snail or koala. Observe the key similarities and differences in size and the number of main organs. Draw a table to compare your chosen animal's digestive system to a human's digestive system.
 - **Note**: These animals have very different digestive systems. For example, chickens have no teeth and therefore swallow small stones and grit that pass into the gizzard with the food they eat. Along with the muscular action of the gizzard, the stones grind down the food before it passes into the intestines.

Computing:

- Use a graphics program (like Paint) to design book covers for a delicious book and a disgusting
- Look at the different types of font shown in the book. Use a word processing program to copy and paste the same sentence and change the font in each copy. Which font is your favourite? Why? Do the fonts make each sentence look serious / funny / cute?

Spanish: practise how to talk about your family and pets in Spanish at The Oak National Academy.

RE: Think about what you know about how the human body works. What do you wonder about it? Christians believe God created the human body like this. What would you want to say to God about it? Write a prayer with your thoughts.

Additional learning resources parents may wish to engage with

Author Rob Biddulph does twice weekly drawing videos for children. You can watch them and have a go at Draw with Rob.

Your child may have concerns about the current situation. Childline has lots of advice about how to discuss





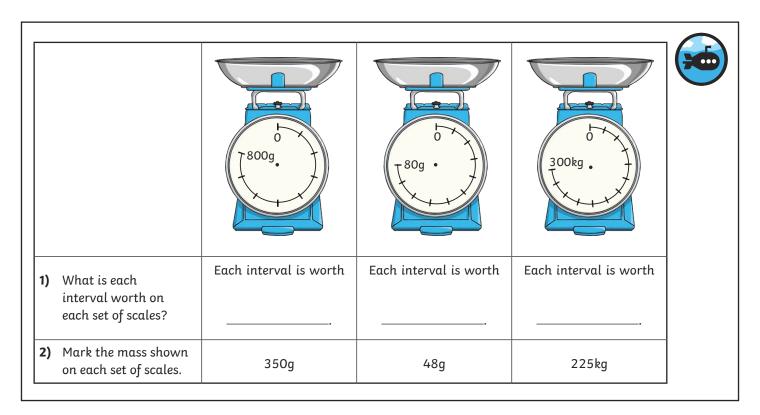
it with your child.

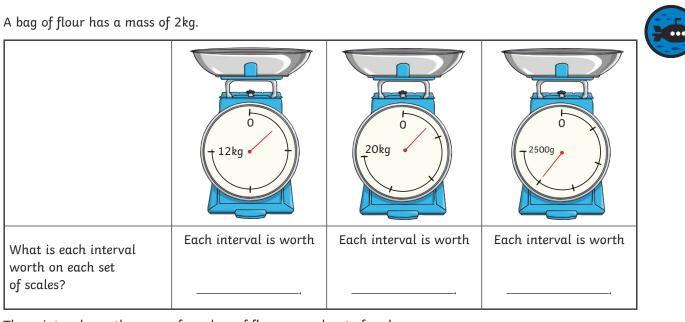
Nosy Crow Books have released a superb free book for children called Coronavirus: a book for children. You can download and read it <u>here</u>.





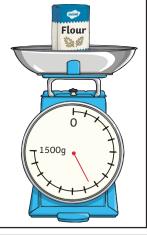
The following worksheets support the activities mentioned in the pack.



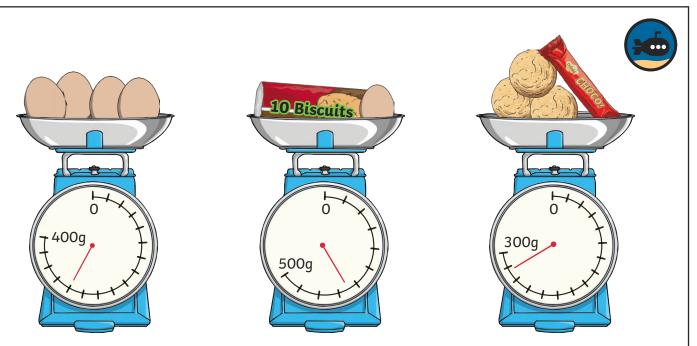


The pointer shows the mass of one bag of flour on each set of scales.

- 1) One set is incorrect. Which set?
- 2) Ali says that the mass of the bag of flour on this set of scales is 800g. Do you agree? Explain your answer.

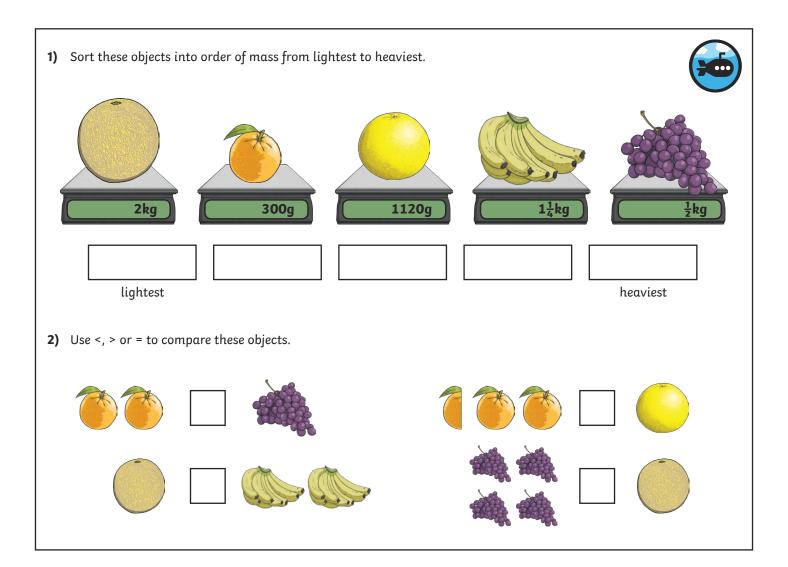






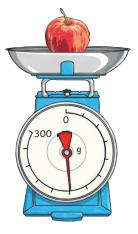
- 1) Use the information shown to work out the mass of the chocolate bar. Show your working out.
- 2) The mass of a watermelon is 1kg. How many bars of chocolate would have the same mass as one watermelon?
- 3) What other combinations of ingredients would have the same mass as one watermelon?



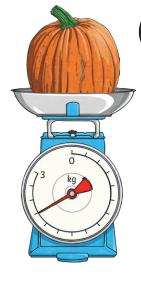


Tomek, Mark and Geri are weighing their shopping items.









1) Sort the items in order of mass from heaviest to lightest.

2) Look at the statements below. Which do you agree with? Explain why.

Geri says, "The bag of sprouts is heavier than the bag of potatoes because 960 is greater than 4."

Mark says, "The pumpkin weighs less than the apple because the pointer on the pumpkin scale is less than halfway but on the apple scale it is more than halfway."

Tomek says, "The apple weighs less than the bag of potatoes because 175g is less than 4kg."

3) Explain what is wrong with the incorrect statements	3)	Explain	what is	wrong	with	the	incorrect	statements
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1) Maria, Jemma, Ben and Graham have all been shopping. Use the clues to work out who each bag belongs to. 5kg 600g **2090**q This bag belongs to This bag belongs to This bag belongs to This bag belongs to Maria's shopping bag has Jemma's shopping bag Ben's shopping bag a mass of less than $\frac{1}{4}$ of has a mass of more than weighs less than Jemma's 10kg and more than 2kg. 4kg but less than 6200g. but more than Maria's. 2) Write a clue to compare Graham's shopping bag to someone else's. 3) The same shopping bags are placed onto a balance with some sets of equal weights. What can you say is true about the weights? 4) Estimate how many weights would balance each shopping bag.

1) Zach the zookeeper is trying to work out how much animal food he has left in each bag. How much food is left? 1kg 860g was used 495g was used to feed 930g was used to feed to feed the lemurs the lemurs yesterday. the otters yesterday. yesterday. mass:____ mass:___ 2) Zach the zookeeper put all the leftover food in his wheelbarrow. What was the total mass of food in the wheelbarrow? _____ You will need the Animal Top Cards. Zach the zookeeper is trying to work out which animals he can transport in his truck. His truck has a maximum limit of 500kg. 1) What is the total mass of the animals? 2) Can Zach transport these in his truck? (Circle the correct answer). mass:_ mass:_ yes / no yes / no yes / no 3) Zach's assistant says that no other animal from their zoo can travel with the camel in the truck. Is this correct? Explain why.

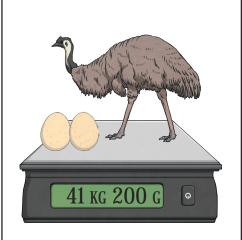
You will need the Animal Top Cards. Use the information on the cards to work out the mass of each mother's baby.



1) What is the mass of one baby?



mass:______.

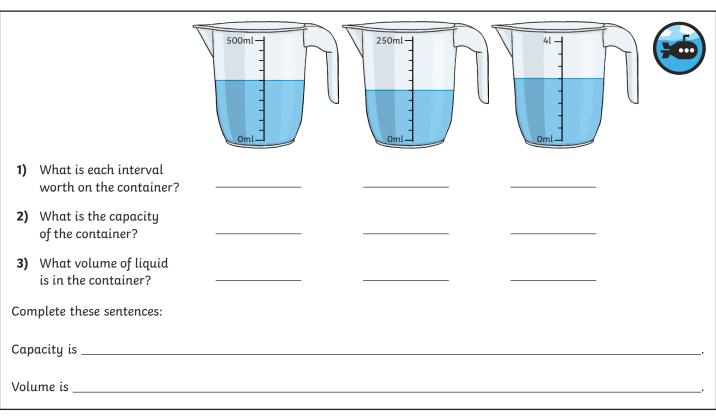


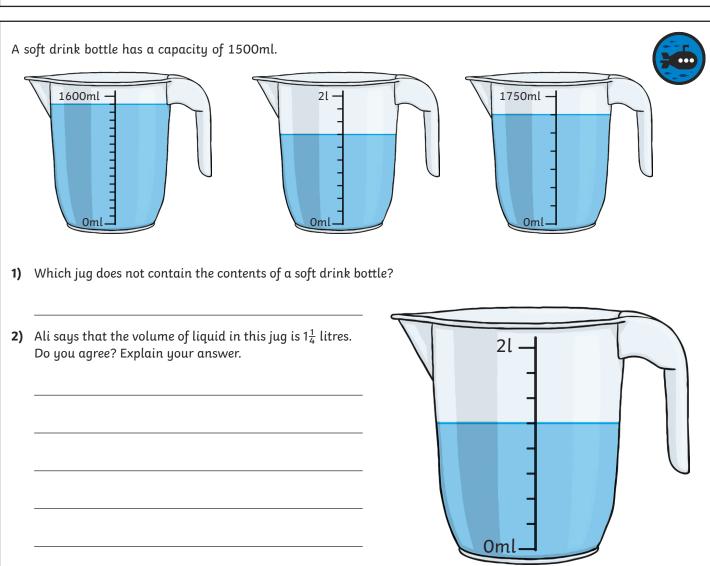
mass:______.



mass:_____

2)	Explain how you worked out the mass of each baby.
3)	The total mass of some of the baby animals in 72kg. Which combinations of animal babies could have been included in this total?













Rafe says, "My container is half full."



Aria says, "My container has 1000ml less in it than Rafe's."



Henry says,
"My container has less
than half a litre in it.
My container has a
capacity less than Aria's."

1) Use the clues to work out whose container is whose. Explain how you worked out the answers. How much water could each one have in their container?

	Container	Volume of Water		
Rafe				
Aria				
Henry				
2) Two more children, Jessica and Mason, join the group. Jessica has a jug with 1450ml of water in it. Mason has a jug with 2l in it. Write more clues to add the children to the maths story.				

Н	enry							
2)	Two more children, Jessica and Mason, join the group. Jessica has a jug with 1450ml of water in it. Mason has a jug with 2l in it. Write more clues to add the children to the maths story.							

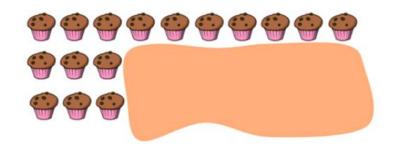




Family Challenge Friday 3rd July

Challenge 1

30 cakes are arranged in an array. Some of the cakes are hidden.



How many cakes are hidden?

Challenge 2

Work out the missing numbers.

$$10 \times 2 = 5 \times \bigcirc$$

$$10 + 2 = 5 + \triangle$$

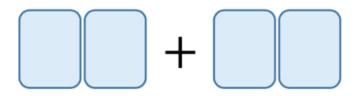


Danni has these four digit cards.



Danni uses all four cards to make two 2-digit numbers.

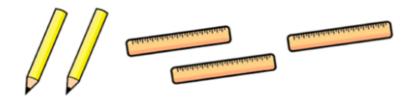
She then adds the two numbers together.



What is the greatest total she can make?

Challenge 4

Sonny buys 2 pencils and 3 rulers.



Each pencil costs 69p.

Sonny pays with a £5 note and receives £1.07 change.

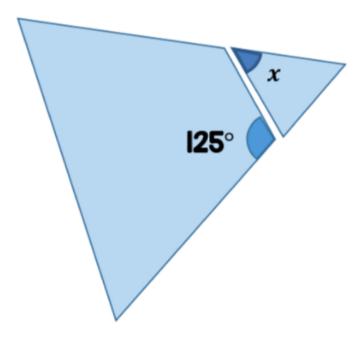
How much does a ruler cost?



Adam has an equilateral triangle.

He cuts a corner off the triangle.

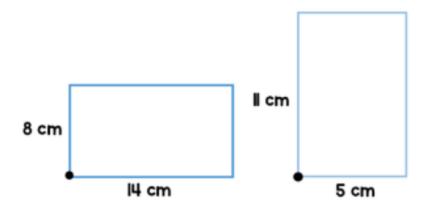
Here are the two pieces.



What is the size of the angle marked x?



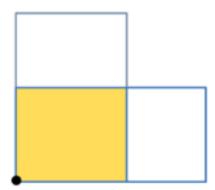
Here are two rectangles.



The two rectangles are put on top of each other.

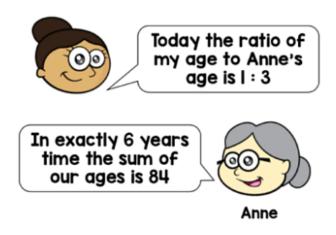
They are lined up so the black circles overlap.

The shaded area shows where the two rectangles overlap.



What is the area of the non-shaded parts of the shape?





How old was Anne this time last year?

Challenge 8

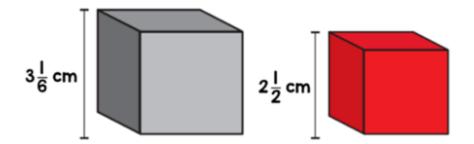
Here is a rule for generating a sequence.

Double the previous number and then subtract I

The third term of the sequence is 25.

What is the difference between the first and fifth terms?





Jack builds a tower using grey blocks.

Alex builds a tower using red blocks.

The towers are exactly the same height.

What is the minimum number of blocks they each use?

Challenge 10

A speedboat sets out from a port P on a bearing of 120°.

The speedboat travels at 48 mph.

A fishing boat sets out from port P on a bearing of 210°.

The fishing boat travels at 20 mph.

How far are the two boats apart after 90 minutes?



As a rough guide of difficulty level:

- Challenge 1 and 2 are suitable for ages 5 to 7.
- Challenge 3 to 6 are suitable for ages 7 to 11.
- Challenge 7 to 10 are suitable for ages 11 to 15.

We want everyone to get involved with challenge day, so work together to solve as many as you can and share your solutions!





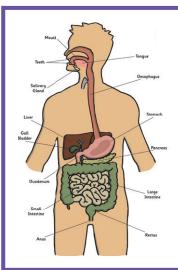
Your Digestive System

Have you ever wondered what happens to your food after you've chewed it in your mouth? Your body is amazing and has a system that sorts and uses the food you eat to make sure your body has everything it needs to work properly. This is called your digestive system. Here's how it works...

Before the Stomach

First of all, we all know that you put food in your mouth to eat it. You enjoy the taste and the feel of the food in your mouth whilst your teeth break it down into smaller pieces. Saliva is the juice in your mouth that is mixed with your food to help make it softer.

When food is small and soft enough to be swallowed, it goes down a big tube to your stomach called the oesophagus (say: a-soff-a-guss). Muscles in the oesophagus take turns to move the food to your stomach. These muscles are so good at this job that they could even get the food to your stomach if you were standing on your head! (Don't try to eat your tea standing on your head though!)



Fact File

- · An adult eats about 500kg of food per year.
- · Your body can produce up to 1.5 litres of saliva every day.
- · An adult oesophagus is about 25cm long.
- A camera has been invented now that is as small as a pill (called Pillcam). It can be swallowed so it passes through your oesophagus in order to take photos of the inside of your body. It can take up to 55,000 pictures over the 8 hours that it's in there! It's been used since 2001 to let doctors see inside patients.

At the Stomach

When the chewed-up food arrives in the stomach, it is mixed with acid that breaks the food down even more into something that looks a bit like porridge- this substance is called 'chyme'.

After the Stomach

The next part of the journey for your food (which doesn't look like food anymore) is through the small intestine. In the small intestine, all the goodness is taken out of the food so it can go off to different places in the body to keep you healthy.

When the small intestine has done its job of getting all the goodness out of the food, all the material that is unwanted goes into the large intestine. Then, it makes its way out of the body as poo at the end of the large intestine.

So, there you have it. Isn't your body clever?



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1. Why do you have to ch	new food before	it goes down the oeso	phagus?	
2. What mixes with the fo	ood in your mout	h?		
3. How much food does the	he average adult	eat in a year?		
4. Put these organs in the	correct order to	show the stages of t	he digestive system:	
large intestine	mouth	small intestine	stomach	oesophagus
5. Where in your body do	es all the waste	go right before it lea	ves the body?	
6. Why has the author us	ed an exclamatio	on mark after the wo	rd 'head' near the en	d of the 'Before the
7. What does 'chyme' lool	k like?			
8. Why has the author st	arted the text wi	th a question sentend	e?	
9. Why has the author w	ritten '(say: a-soj	f-a-guss)' in the 'Befo	ore the Stomach' sect	tion?
10. At the end the author	· says: 'Isn't your	body clever?' Do yo	ı agree? Why or whi	y not?



Answers

1. Why do you have to chew food before it goes down the oesophagus?

To break it down to be smaller and softer pieces to move down the oesophagus and through the body. If it were too big or too rough, it might hurt you or get stuck.

2. What mixes with the food in your mouth?

Saliva

3. How much food does the average adult eat in a year?

500kg

4. Put these organs in the correct order to show the stages of the digestive system:

mouth, oesophagus, stomach, small intestine, large intestine

5. Where in your body does all the waste go right before it leaves the body?

Large intestine

6. What has the author used an exclamation mark after the word 'head' near the end of the 'Before the Stomach' section?

Because it is surprising that the body can do this.

7. What does 'chyme' look like?

Porridge

8. Why has the author started the text with a guestion sentence?

To engage the reader/make you read on.

9. Why has the author written '(say: a-soff-a-guss)' in the 'Before the Stomach' section?

To tell you how to say the word. The word oesophagus is a tricky word and is not written how it is said.

10. At the end the author says: 'Isn't your body clever?' Do you agree? Why or why not?

Open-ended for discussion.



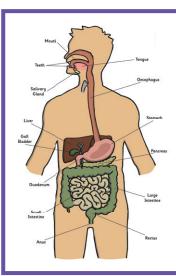
Your Digestive System

Have you ever wondered what happens to your food after you've chewed it in your mouth? Your body is amazing and has a system that sorts and uses the food you eat to make sure your body has everything it needs to stay healthy. This is called your digestive system. Here's how it works...

Before the Stomach

Firstly, we all know that you put food in your mouth to eat it. You enjoy the taste and the texture of the food whilst your teeth break it down into smaller pieces. Then, saliva is mixed with it and your mouth cools it or warms it to a good temperature for you to be able to swallow.

When the food is broken down enough, it is swallowed and goes down a big tube to your stomach called the oesophagus (say: a-soff-a-guss). Muscles in the oesophagus move in waves to move the food down to your stomach. These muscles are so good at this job that they could even get the food to your stomach if you were standing on your head! (Don't try to eat your tea standing on your head though!)



Fact File

- · An adult eats about 500kg of food per year.
- · Your body can produce up to 1.5 litres of saliva every day.
- · An adult oesophagus is about 25cm long.
- A camera has been invented now that is as small as a pill (called Pillcam). It can be swallowed so it passes through your oesophagus in order to take photos of the inside of your body. It can take up to 55,000 pictures over the 8 hours that it's in there! It's been used since 2001 to let doctors see inside patients.

At the Stomach

When the chewed-up food arrives in the stomach, it is mixed with acid that breaks the food down even more into something that looks a bit like porridge. This substance is called 'chyme'.

After the Stomach

The next part of the journey for your food (which doesn't look like food anymore) is through the small intestine. It's here that all the goodness is taken out of the food and goes off to different places in the body for you to use.

When the small intestine has done its job of getting all the goodness out of the food, all the material that is unwanted goes into the large intestine. Then, it makes its way out of the body as poo at the end of the large intestine.

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1.	Why do you have to chew food before it goes down the oesophagus?
2.	Name something that happens to the food whilst in your stomach.
3.	How much food does the average adult eat in a year?
4.	Put these organs in the correct order to show the stages of the digestive system:
	large intestine mouth small intestine stomach oesophagus
5.	Where in your body does all the waste go right before it leaves the body?
6.	In the 'After the Stomach' section, the author has used brackets to remind us that the food does not look
	like food at this point. Why doesn't it look like food?



7. Why has the author used an exclamation mark after the word 'head' near the end of the 'Before the Stomach'
section?
8. What does 'chyme' look like?
9. Why has the author started the text with a question sentence?
10. Why has the author written '(say: a-soff-a-guss)' in the 'Before the Stomach' section?



Answers

1. Why do you have to chew food before it goes down the oesophagus?

To break it down to be smaller and softer pieces to move down the oesophagus and through the body. If it were too big or too rough, it might hurt you or get stuck.

2. Name something that happens to the food whilst in your stomach.

Accept any answers from: breaks down more, gets stored for a while, mixes with acid/juices/enzymes, or the juices in there help kill bacteria in the food.

3. How much food does the average adult eat in a year?

500kg

4. Put these organs in the correct order to show the stages of the digestive system:

mouth, oesophagus, stomach, small intestine, large intestine

5. Where in your body does all the waste go right before it leaves the body?

Large intestine

6. In the 'After the Stomach' section, the author has used brackets to remind us that the food does not look like food at this point. Why doesn't it look like food?

Any answers that give reference to; it has been broken down, it has been chewed and swallowed, it looks more like porridge, or enzymes, acid and juices have mixed with it.

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To tell you how to say the word because it is a tricky/ unusual word to pronounce.



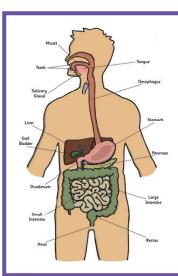
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Firstly, we all know that you put food in your mouth to eat it. You enjoy the taste and the texture of the food whilst your teeth break it down into smaller pieces. Saliva is then mixed with it to help make it softer and break it down. Also, your mouth cools it or warms it to an acceptable temperature for you to swallow.

When the food is broken down enough, it is swallowed and goes down to your stomach via a tube called the oesophagus (pronounced 'a-soff-a-guss'). Muscles in the oesophagus move in waves to move the food down to your stomach. These muscles are so good at this job that they could even get the food to your stomach if you were standing on your head! (Don't try this though!)



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At the Stomach

When the chewed-up and softened food arrives in the stomach (which is a stretchy sack shaped like a letter 'J'), it is mixed with acid and enzymes (pronounced: en-zimes) that break the food down. Once it's broken down, it looks a bit like porridge- it is a substance called 'chyme'. The stomach juices also help to kill any bad bacteria that might be in the food, which could potentially make you ill.

After the Stomach

The next part of the journey for your food (which doesn't look like food anymore) is through the small intestine. It's here that all the goodness is taken out of the food, which goes off to different places in the body for you to use.

When the small intestine has done its job of getting all the goodness out of the food, all the material that is unwanted goes into the large intestine. Then, it makes its way out of the body as poo at the end of the large intestine.

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1. Why do you have to chew food before it goes down the oesophagus?	
2. Name something that happens to the food whilst in your stomach.	
3. How much food does the average adult eat in TWO years?	
4. Put these organs in the correct order to show the stages of the digestive sy	ystem:
large intestine mouth small intestine stomach	oesophagus
5. Where in your body do the nutrients and goodness come out of the food to	o go into the rest of your body?
6. In the fact file, the author tells you about a thing called a 'Pillcam' — why	would doctors find this useful?



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7. Why has the author used an exclamation mark after the word 'head' near the end of the 'Before the Stomach' section?
8. What is 'chyme'?
9. Why has the author started the text with a question sentence?
10. Why has the author written '(pronounced: a-soff-a-guss)' in the 'Before the Stomach' section?



Answers

1. Why do you have to chew food before it goes down the oesophagus?

To break it down to be smaller and softer pieces to move down the oesophagus and through the body. If it were too big or too rough, it might hurt you or get stuck.

2. Name something that happens to the food whilst in your stomach.

Accept any answers from: breaks down more, gets stored for a while, mixes with acid/juices/enzymes, or the juices in there help kill bacteria in the food.

3. How much food does the average adult eat in TWO years?

1000kg (2 x 500kg)

4. Put these organs in the correct order to show the stages of the digestive system:

mouth, oesophagus, stomach, small intestine, large intestine

5. Where in your body do the nutrients and goodness come out of the food to go into the rest of your body?

Small intestine

6. In the fact file, the author tells you about a thing called a 'Pillcam' – why would doctors find this useful?

To look for something wrong/any problems on the inside of someone's digestive system.

7. What has the author used an exclamation mark after the word 'head' near the end of the 'Before the Stomach' section?

Because it is surprising that the body can do this.

8. What is 'chyme'?

A substance that looks like porridge that contains broken down food mixed with acid, juices and enzymes

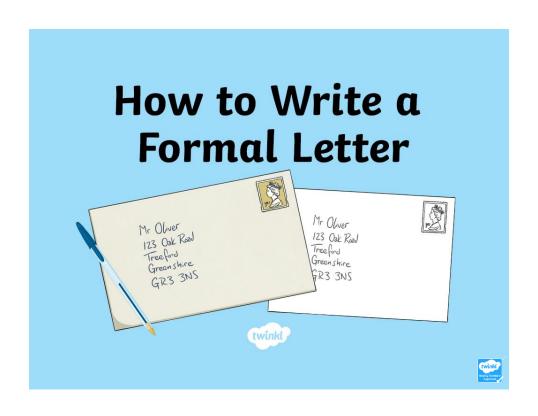
9. Why has the author started the text with a question sentence?

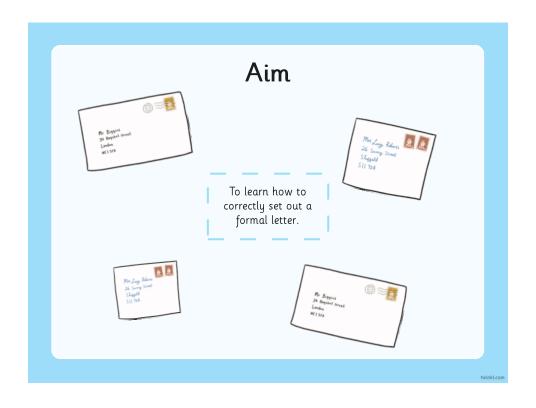
To engage the reader/make you read on.

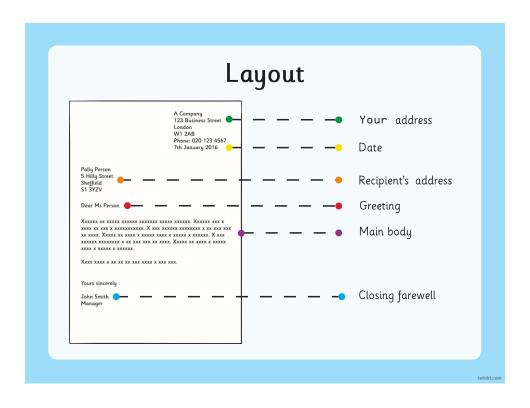
10. Why has the author written '(pronounced: a-soff-a-guss)' in the 'Before the Stomach' section?

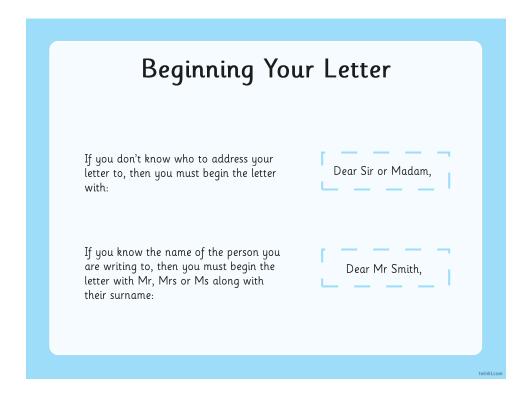
The word oesophagus is a tricky word to read and say, and is not pronounced how it is spelt.



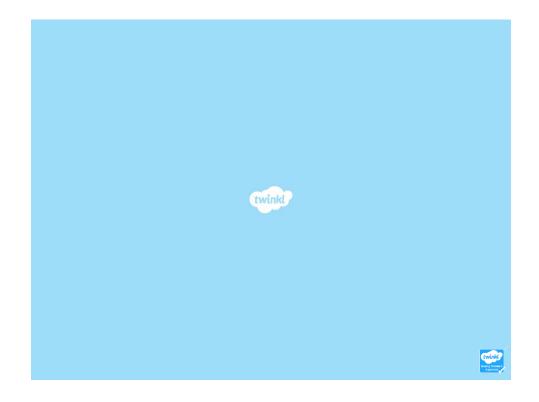








Ending Your Letter If you don't know who to address your letter to, then you must end the letter with: Yours faithfully (YOUR NAME) Yours NAME) Yours Sincerely (YOUR NAME)



Formal Letter Example



Mr S. Pilkington 32 Warren Drive Warwickshire S13 4AP Mr T. Smith 89 Foxhole Lane Twinklstone WA12 4QP

Monday 26th November 2012

Dear Mr Pilkington,

I am writing to complain about the vegetables purchased from your shop three days ago. Firstly, the sweet potatoes were not only hollow, but had an infestation of ants within them. Secondly, the 500g of mushrooms were actually doorknobs which had been painted grey. Lastly was the watermelon. Upon closer inspection this was no watermelon, rather a football painted green and filled with jelly. I am uncertain of what gave you such a preposterous idea as to paint doorknobs grey and sell them as mushrooms or to fill a football with jelly. This standard is unacceptable and I demand a refund for these goods. You shall be expecting a visit from me within the week.

Yours sincerely

Mr T. Smith

Formal Letter Example



Miss W. Spider 62 Twaddle Street Rambleswisck PT5 7AP Mrs S. Webb 2 Fruitim Road Pendyville SP1 4LF

Friday 13th January 2013

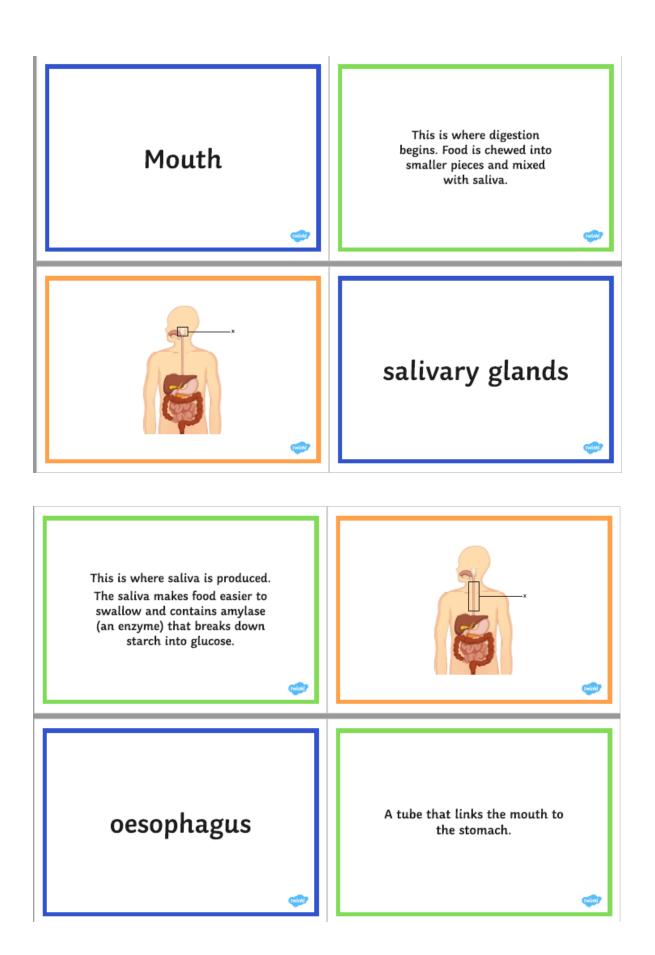
Dear Sir or Madam,

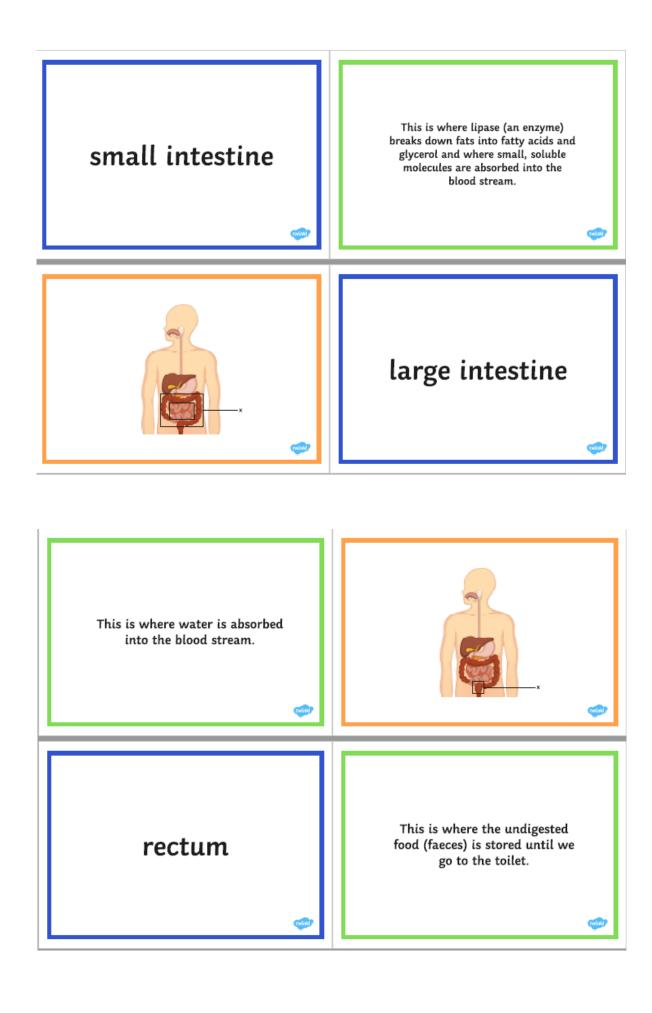
Thank you for your email regarding my purchase of a plot of land. I have to say, however, that I am deeply disappointed with the lack of access to this land. I applied for this land because I would have liked to own a little piece of the Scottish Highlands. Sadly this land was at the very top of a highly inaccessible mountain and I feel I have wasted a precious £300.

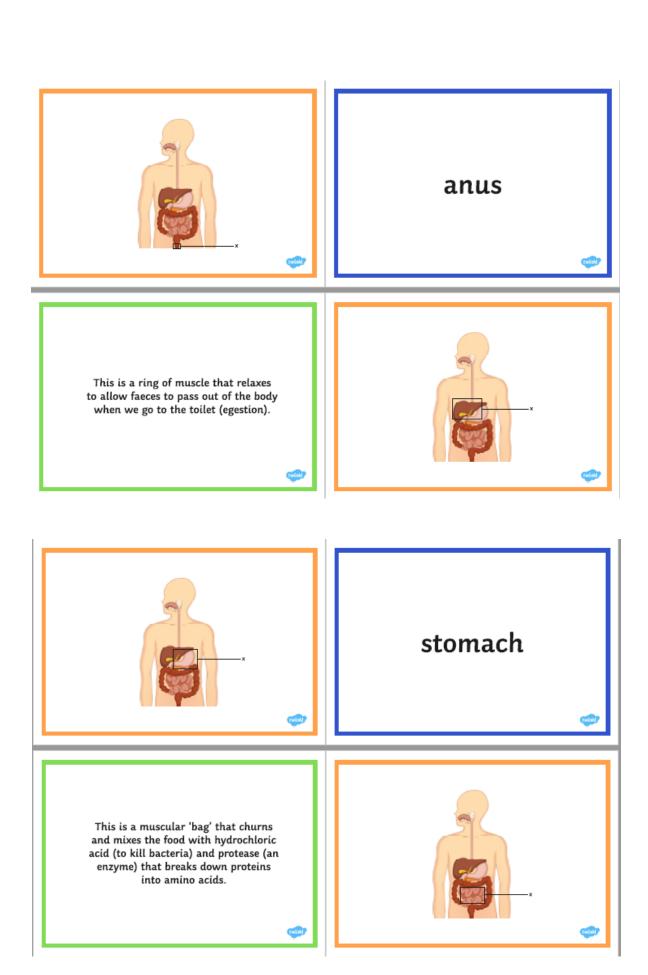
Your comments would be appreciated.

Regards

Mrs S. Webb





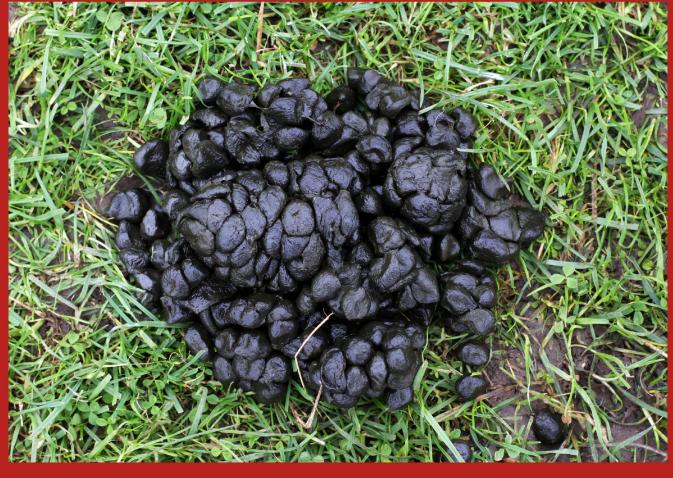


















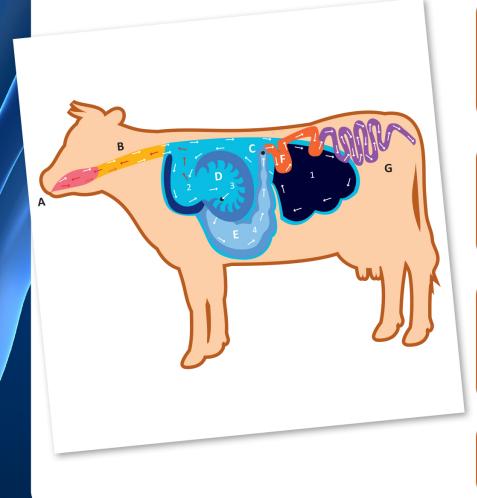




Snake digestive system B Oesophagus **A** Mouth A snake doesn't chew its food. Food travels from the snake's Instead, it swallows its prey mouth through a tube called the whole. A snake can unhinge its oesophagus. The oesophagus is jaws to stretch around animals strong and stretchy to help the snake move its large meal to its much bigger than its own head! stomach. **D** Small intestine **C** Stomach Once food has been broken A snake's stomach is also strong and down, it is passed to the small stretchy. Inside, very powerful acids intestine. Here, bile from the dissolve the food, including animal liver, and digestive enzymes from bones. However, hair and claws the pancreas are added to the can't be digested. food. This helps the snake to absorb nutrients. F Cloaca Waste products then move to the **E** Large intestine cloaca. Here, they mix with waste The large intestine absorbs any from the urinary system (the system remaining nutrients and water, that deals with wee). Faeces (poo) and the mixed-in urine (wee) leave leaving waste products that can't the snake's body through the be used by the snake. cloaca.

Burps, Bottoms and Bile Copyright © 2017 Cornerstones Education Limited

Cow digestive system



A Mouth

A cow uses its tongue to grasp and gather grass. It chews the grass, mixing it with plenty of saliva before swallowing. This mixture is called a bolus.

D Stomach

Food then travels to the **omasum (3)** which acts as a filter. Small particles of food travel on to the **abomasum (4)** while larger particles go back to the **reticulum (2)**.

E Stomach

In the abomasum (4) or 'true stomach', digestive enzymes are added to the food. This prepares the food to enter the small intestine.

B Oesophagus

The bolus travels from the cow's mouth to the stomach, through a tube called the oesophagus.

C Stomach

The bolus enters the cow's stomach that is split into four chambers. It reaches the **rumen (1)** first where it mixes with digestive bacteria. The mixture then moves to the **reticulum (2)** from which large, undigested particles of food are regurgitated and chewed again.

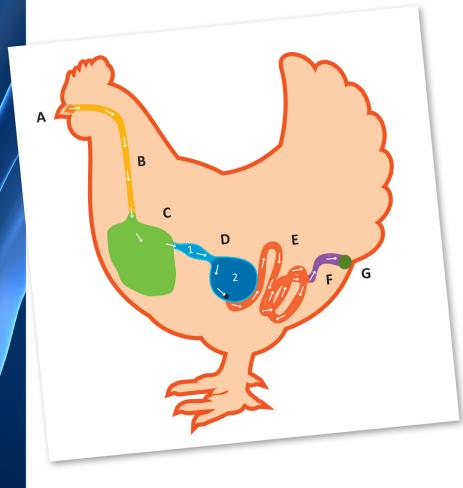
F Small intestine

Bile from the liver and enzymes from the pancreas are added to the food in the small intestine. This helps the cow to absorb nutrients and water.

G Large intestine

The large intestine absorbs any remaining nutrients. Leftover water and waste products leave the large intestine, passing out of the anus as faeces (poo).

Chicken digestive system



A Beak

A chicken pecks at food with its beak. It cannot chew food as it has no teeth. The food mixes with saliva in the chicken's mouth.

E Small intestine

Once the food has been broken down, it is passed to the small intestine. Here, bile from the liver and enzymes from the pancreas are added to the food. This helps the chicken to absorb nutrients.

F Large intestine

The large intestine absorbs any remaining nutrients and water, leaving waste products that cannot be used by the chicken.

B Oesophagus

Food travels from the chicken's mouth through a tube called the oesophagus.

C Crop

At the bottom of the oesophagus is a pouch called a crop. The crop stores food and slowly passes it to the stomach.

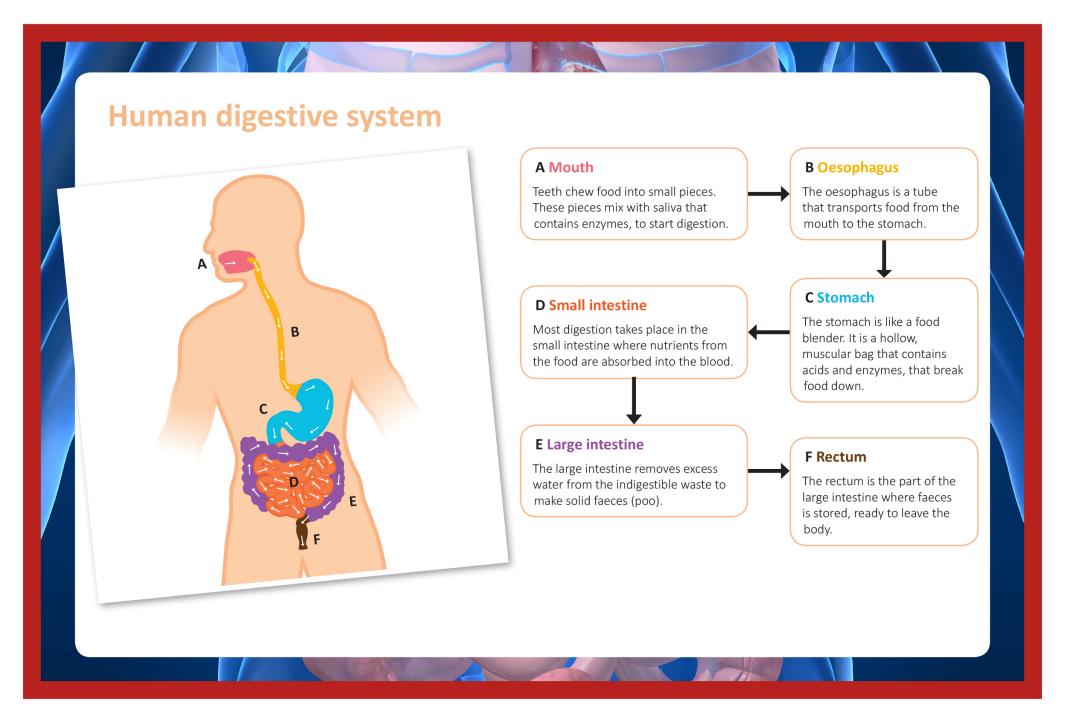
D Stomach

A chicken has two parts to its stomach:

1) proventriculus and 2) gizzard. The proventriculus adds digestive enzymes to food, and the gizzard grinds the food. Chickens swallow grit that collects in the gizzard. This grit helps to grind the food.

G Cloaca

Waste products then move to the cloaca. Here, they mix with waste from the urinary system (the system that deals with wee). Faeces (poo) and the mixed in urine (wee) leave the chicken's body through the cloaca.



The Human Digestive System

Your **tongue** is a muscular organ in your mouth, which is covered in thousands of taste buds.

Your **teeth** help to break down your food into smaller pieces.

The salivary gland is where the important secretion saliva is made. Saliva softens your food so you are able to swallow it.

Your liver acts
as a chemical
processing factory to
change most of the food that
you eat into substances that
your body can use. It also gets
rid of the things that are no use
or are toxic to your body. It
produces a liquid called bile,
which aids digestion and
helps to absorb fats.

The gall
bladder is a
small pouch that
sits just under your
liver. The gall
bladder stores bile
produced by
the liver.

All the food
material that is still
unwanted now goes on its
last journey through your large
intestine. It passes through a part
of the large intestine called the
colon, which is where the body gets
its last chance to absorb any water
or minerals into the blood. As the
water leaves the waste product,
what's left gets harder and
harder as it keeps moving
along, until it becomes
a solid poo.

Your mouth
is where food
goes in and where it
is chewed to make it
softer and smaller
so it can be
swallowed.

The

oesophagus is the

tube that connects your

mouth and your stomach.

It has muscles within it

that work in waves to

move the food you have

eaten down into your

stomach.

The stomach is
like a stretchy sack where
your food is broken down by
acids and enzymes. Once it is
broken down, it becomes a
porridge-like substance called chyme.

After the chyme comes out of the stomach, it goes into the duodenum where it is broken down some more. It also connects to other parts of the digestive system like your liver, your gall bladder and your pancreas.

intestine is a long stretchy tube that is packed beneath your stomach. It breaks down the food mixture even more so your body can absorb all the vitamins, minerals, proteins, carbohydrates and fats.

The large
intestine pushes the
poo into the rectum, which
is the very last stop on the
digestive tract. The solid waste
stays here until you are ready to
go to the toilet.

The solid waste is pushed through the anus into the toilet. The end of your food's journey!

