

Name:

Date:

School:

Year:

# Science

## Animals, Including Humans Group

Green Course



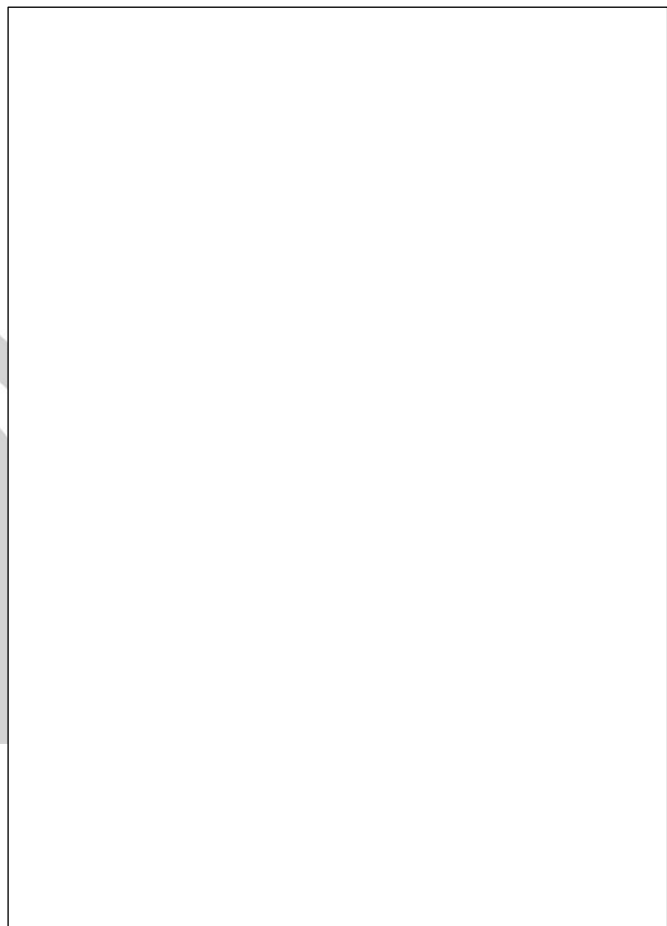
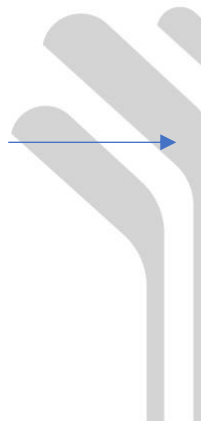
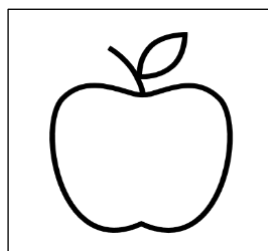
### The Digestive System

## What is your favourite food? What do you know about what happens to your food when it enters your body?

### Part A: Prior Knowledge

Exercise 1:

In the space below draw/write or tell your tutor/friend everything you know about what happens to an apple when it enters your body.



Does the apple stay the same or change in your body?

Do you know the names of any of the body parts the apple passes through? What job do these body parts have?

## Part B: Key Vocabulary

Key Words	Meaning
<b>Digest</b>	To <b>break down food</b> so it can be used by the body (to help it grow, repair itself and stay healthy).
<b>Organs</b>	<b>Body parts</b> with a specific function
<b>Digestive System</b>	<b>A group of organs</b> responsible for the digestion of food.

### Exercise 1:

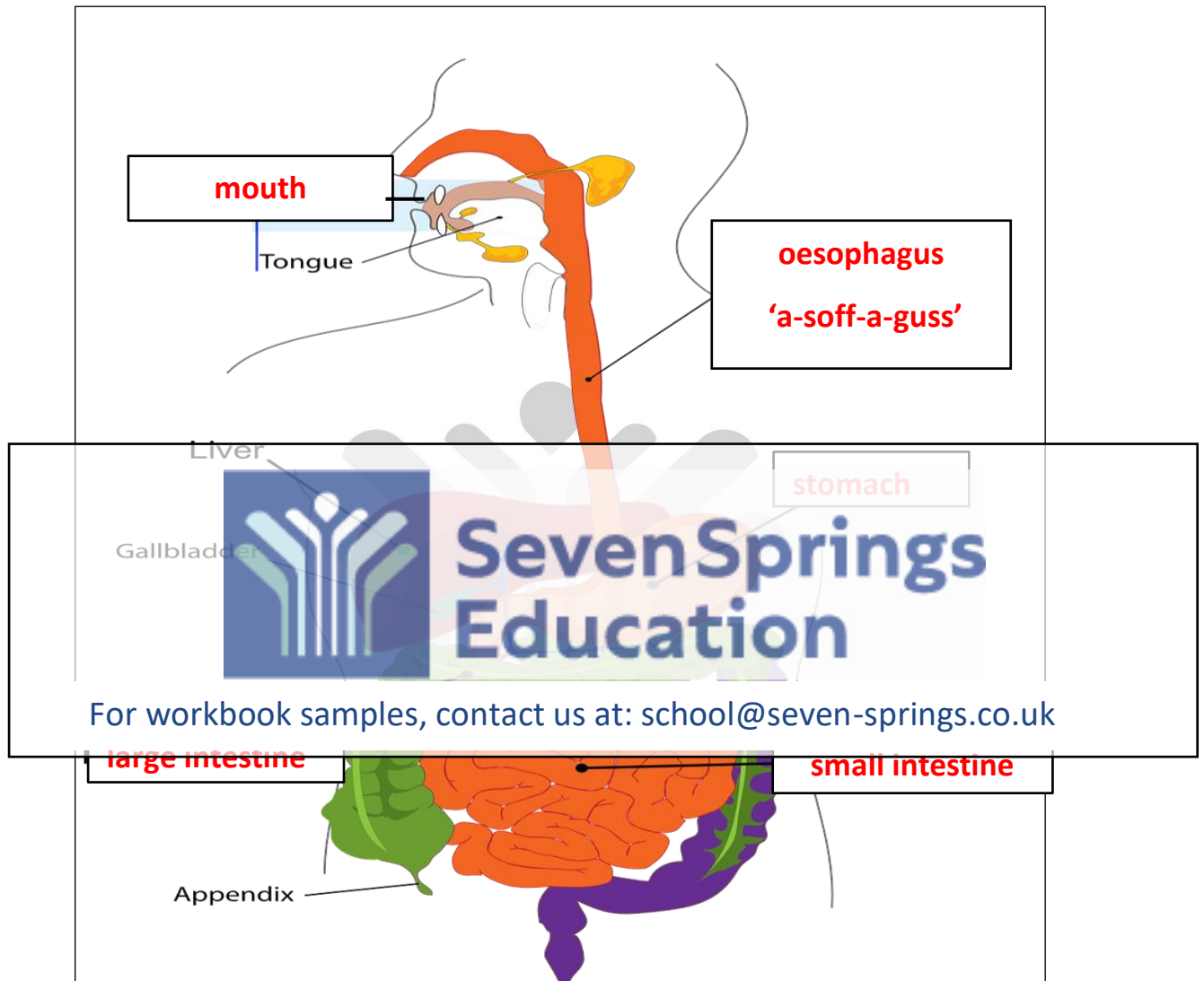
Fill in the table for each of the above words. Firstly, write the word in your own style/colours and then create a drawing to help you remember the meaning. Finally, write a definition for each word.

Word	Drawing to help remember the meaning	Written explanation to help remember the meaning

## Part C: Body Parts in the Digestive System

### Exercise 1:

The diagram below shows the main body parts in the digestive system (highlighted in red).

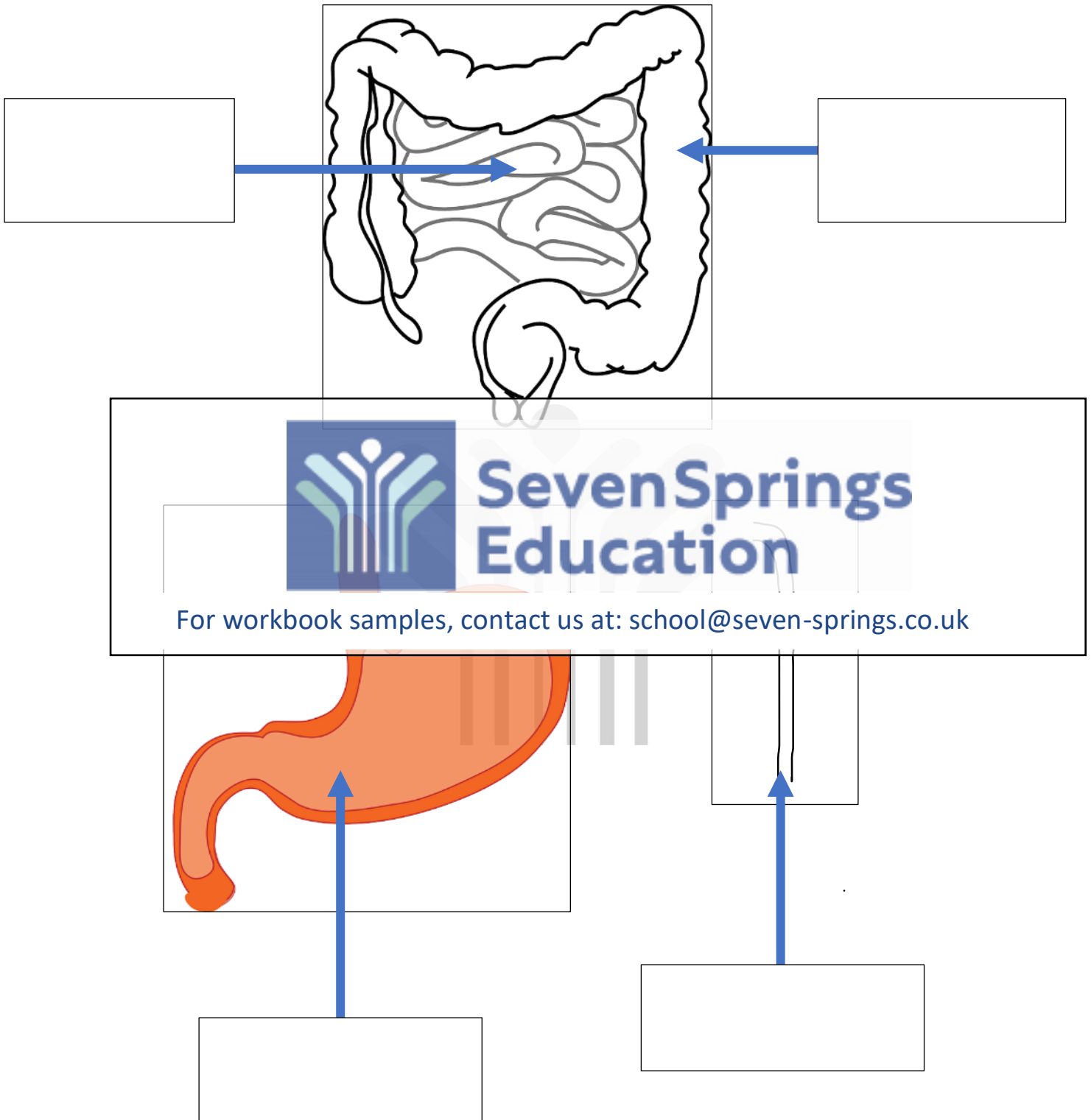


a) Look at the diagram for 10 seconds, and then tell your friend/tutor what you can remember about it.

Can you remember the name of any of the body parts in the digestive system? What shape are these body parts?

b) Repeat question a). Did you recall any more details?

c) Using the diagram on the previous page to help you, label these body parts.



Exercise 2:

Draw the body parts in the boxes below. If you are working alone, copy the shape of the organs as carefully as you can from the diagram on page 4. Or, if you are working with a friend/tutor, give them instructions to follow, explaining how to draw the organs e.g. for oesophagus “Draw a vertical line, take off your pencil and draw another vertical line the same close to it..’

**oesophagus**

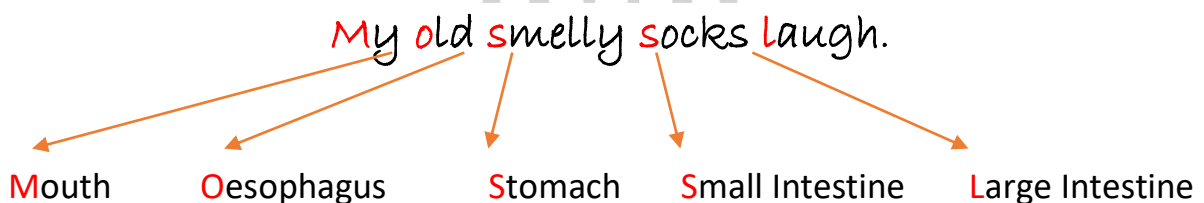
**stomach**

**small intestine**

**large intestine**

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Mnemonics, like the one below, can be a great way of remembering the order of the organs in the digestive system.



a) Make up your own mnemonic, to help you to remember the order of the organs in the digestive system.

**M**outh      **O**esophagus      **S**tomach      **S**mall Intestine      **L**arge Intestine

b) Put the body parts in the order that food passes through them.

mouth

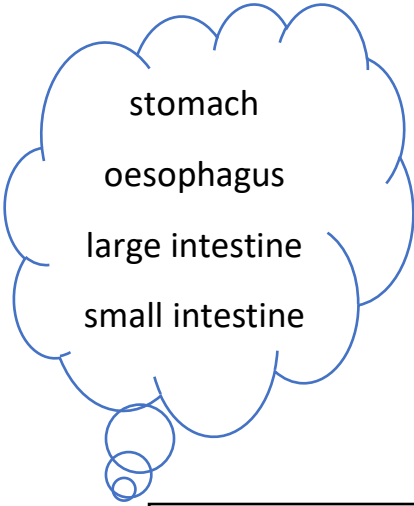
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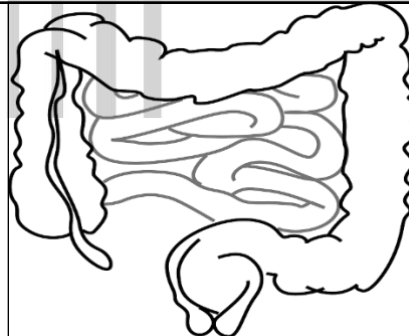
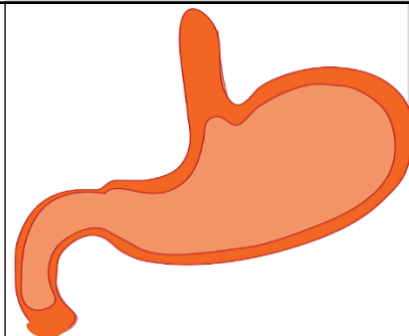
\_\_\_\_\_



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c) Fill in the gaps to show the missing organs.  
mouth, \_\_\_\_\_, stomach, small intestine,

c) W For workbook samples, contact us at: [school@seven-springs.co.uk](mailto:school@seven-springs.co.uk)



Missing organ/organs:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

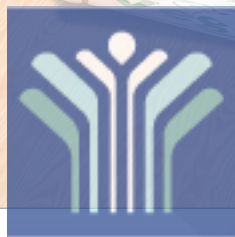
## Part D: The Mouth and Oesophagus

### Exercise 1:



Digestion (the breaking down of food so it can be used by the body) begins in the mouth. Teeth crush food into smaller pieces. Saliva is also released as we chew, this mixes with food to help soften it. When the food is small enough to be swallowed, the tongue passes it through a hole at the back of the throat to the oesophagus. Food doesn't just fall through the oesophagus, muscles in the

oesophagus squeeze the food down, a bit like when you squeeze a tube of toothpaste through a food waste tube.



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a) **U1** For workbook samples, contact us at: [school@seven-springs.co.uk](mailto:school@seven-springs.co.uk)

b) Where does digestion begin? \_\_\_\_\_

c) What happens to food when it is in the mouth? \_\_\_\_\_

d) What does the oesophagus do? \_\_\_\_\_

e) **Although you should never try this-** why do you think it is possible to swallow food whilst upside down? \_\_\_\_\_



Have you ever heard anybody cough and say  
'Oh, that food went down the wrong hole?'  
What do you think they mean?

## Part E: Stomach

Exercise 1:



The stomach is a stretchy muscular bag. It is about the size of a tennis ball when empty, but it can be as large as a football after a big meal.

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churned around, whilst being mixed with digestive juices and acid. This breaks the food down into a sloppy liquid, a bit like porridge. This liquid is called chyme. Chyme is squirted from the stomach into the small intestine.



a) When can the stomach be as large as a football? \_\_\_\_\_

b) How is food broken down in the stomach? \_\_\_\_\_

c) Food is broken down into a liquid called

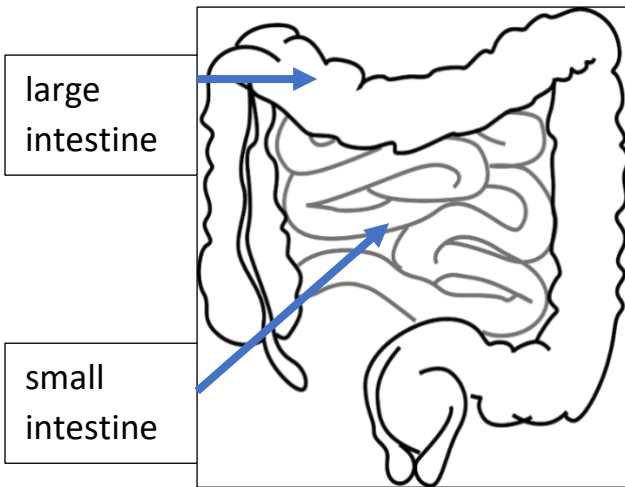
a) thyme

b) chyme

c) porridge

Has your stomach ever felt large after eating a  
big meal?

## Part F: Small Intestine and Large Intestine



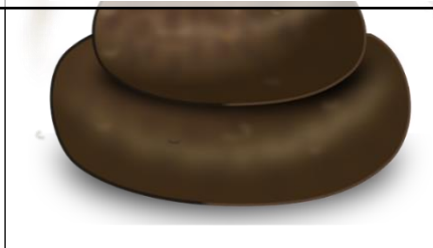
When chyme enters the small intestine nutrients are absorbed from it into the blood stream. Vitamins, carbohydrates, proteins, and fats are all absorbed for growth, energy and repair.

Although it is called the **small intestine**, the small intestine is in fact is a **very long** tube, measuring 6.25m long. It is very **thin** though, measuring only 3cm wide.



Food that has been broken down and used in the body) is squeezed into the large intestine which absorbs water from this waste material. As

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becomes harder and harder. Strong muscles contract to push the waste through the intestine until it leaves the body as faeces (poo).

The large intestine is much shorter than the small intestine, measuring 1.5m, however it is much wider, measuring 7cm wide.

a) What is the job of the small intestine \_\_\_\_\_

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b) What is the job of the large intestine? \_\_\_\_\_

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c) If the small intestine is a 6.25m long, how do you think it fits into the body? Look at the diagram for help. \_\_\_\_\_

d) If large intestine is much shorter than the small intestine, why is it called the 'large' intestine? \_\_\_\_\_

e) What is the scientific name for 'poo' \_\_\_\_\_



Have you ever heard your tummy 'growling'?

This sound is caused by the muscles in your stomach and small intestine contracting to move food through them.

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Exercise 1:

Draw **five lines** to match each part of the digestive system with the job that it does.

mouth	Squeezes food from the mouth to the stomach.
stomach	Nutrients are absorbed into the bloodstream.
small intestine	Water is absorbed. Strong muscles push the waste materials out of the body as faeces (poo).
large intestine	Digestive juices and acid break down food into a porridge like substance.
oesophagus	Teeth and saliva break down food into smaller, softer pieces.

## Part H: Time taken To Digest Food

### Exercise 1:

The digestive system is a 9m long tube, made up of different parts (mouth, oesophagus, stomach, small intestine and large intestine). The table below shows how long food takes to pass through the different parts of the digestive system

Part of digestive system	Time taken for food to pass through
oesophagus	About 6 seconds
stomach	Around 4 hours
small intestine	Around 3 hours
large intestine	Up to 30 hours

In what part of the digestive system does food spend the longest amount of time being digested? The least amount of time?

About how long do you think it would take for your favourite food to pass through your body?



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## Part I: True or False

	True	False
Digestion starts in the stomach.		
Blood and food will travel through the digestive system.		
The substances entering the digestives system are different to the substances leaving the digestive system.		
The lungs are part of the digestive system.		
The stomach can change size.		
You can't swallow food when you are upside down.		
The large intestine is longer than the small intestine.		

## Part J: Talk Like a Doctor

### Exercise 1:

Now you are expert on the digestive system, see if you can talk like a doctor. Talk to your friend/tutor for two minutes about the digestive system. Maybe you could explain what happens to an apple when you eat it. Each time you use one of the words below you can get one, two or three points. Try to get as a high a score as possible.

1 point	Tally	2 points	Tally	3 points	Tally
digestive system		digest		Stretchy bag	

tube		mouth		coiled	
break down food		oesophagus		stomach	
poo		stomach		muscles	



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		large intestine		waste	
				nutrients	
				teeth	
				saliva	
				muscles	
				faeces	



What score did you get? Can you beat it?

If you want to sound even more like a doctor, deducted one point every time you say erm, or like.



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