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Year 6 Learning in School Week 3

We understand that children who are not yet able to attend school may be curious to know and to have a go at, the learning their peers have completed in school this week. With this in mind, we will be sharing a simple outline of the learning completed in school at the end of each week. There is no expectation that children complete this learning alongside what they are already doing, however if they would like to Miss Kober and Miss Revels-Hull would be delighted if you shared this with them through the [learning.saxon](mailto:learning.saxon@lumenlearningtrust.co.uk) email account.

<u>Subject</u>	<u>Learning Task</u>
English	<p>Children wrote a text analysis of how the main character is feeling in Chapter 2 of 'There's a Boy in the Girls' Bathroom'.</p> <p><i>You might like to write a text analysis to explore the feelings of the main character in the book you are reading at home. Remember to use the PEAL structure to help you – Point, Evidence, Analysis, Link.</i></p>
Maths	<p>Children completed problem solving questions, using their knowledge of measures including time.</p> <p><i>You will find the questions the children worked from in class, below.</i></p>
Science	<p>Children have been identifying and naming the main parts of the human circulatory system, and describing the functions of the heart, blood vessels and blood.</p> <ol style="list-style-type: none"> 1. What is the circulatory system? https://www.bbc.co.uk/bitesize/topics/zwdr6yc/articles/zs8f8mn 2. How does a healthy heart work? https://www.bhf.org.uk/heart-health/how-your-heart-works/how-a-healthy-heart-works 3. The heart and how it works http://www.bbc.co.uk/education/clips/zncg9j6 <p>They have also explained their understanding of what blood is:</p> <ol style="list-style-type: none"> 1. What is in your blood? http://www.bbc.co.uk/guides/zqv4cwx#z2g8k7h 2. What are blood vessels? https://www.bbc.co.uk/bitesize/topics/zwdr6yc/articles/zw8xb82 <p>Children have spent time thinking about the impact of diet, exercise, drugs and lifestyle on the way their bodies function. Children have thought about how they can ensure they eat well by using food labels to help them identify the nutritional value of food. Using this, children have developed their understanding of how nutrients and water are transported within our bodies.</p> <p>https://www.bbc.co.uk/bitesize/topics/z27kng8/articles/z2rx82 https://www.bbc.co.uk/bitesize/topics/z27kng8/articles/zg2g7p3 https://www.bbc.co.uk/bitesize/topics/zv9qhyc/articles/zdkfvk7</p>



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Using the videos and resources you could write your own explanation about how our circulatory system works, how our bodies absorb nutrients, and how our diet and lifestyle affect our health.

English Learning

P E A L (Point, Evidence, Analysis, Link)

P - Make your point

E - This is show when “....” (Give your quote)

A - Pick out the word or phrase you are going to focus on first and give its meaning in this context, or if focussing on a particular piece of punctuation explain its usual purpose

L - Explain how that word/phrase/piece of punctuation links to your point

Maths Learning

1. This table shows when flights take off at an airport.

Flight number	Destination	Take-off time ✈
AX40	Paris	13:35
BH253	Berlin	14:05
CG008	Rome	15:25
DP369	Paris	15:40
EZ44	Lisbon	16:15
FJ994	Dublin	17:25

How many flights take off between 3pm and 5pm?



How much later does the second flight to Paris take off than the first?



The flight to Dublin takes 50 minutes.

What time does it arrive in Dublin?



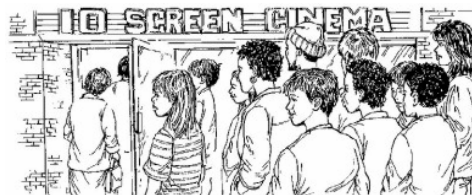
2. A film starts at 6:45pm.

It lasts 2 hours and 35 minutes.

What time will the film finish?



.....pm



3. Here is part of the timetable for Class 6 on a Monday.

am			pm		
10:35	10:55	11:45	12:20	1:15	2:15
break		History	Science	lunch	PE

Look at the timetable.

How long is it from the **end** of break to the **start** of lunch?



.....

1 mark

Nisha leaves the Science lesson after 25 minutes.

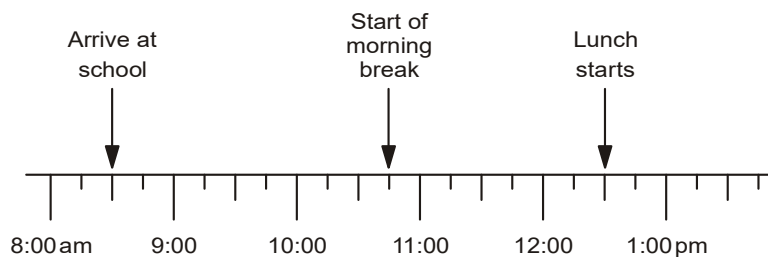
Then she goes to the dentist.

What time does she leave the Science lesson?



4. Jamie makes a time

line of part of his day.



What time does Jamie's morning break start?



am

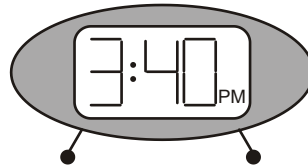
Lunch lasts for three-quarters of an hour.

What time does lunch **finish**?



pm

5. A clock shows this time.



How long is it from this time until 5pm?



What time was it quarter of an hour before the time on the clock?


 pm

6. These are the radio programmes one morning.

7:00	Music show
7:55	Weather report
8:00	News
8:15	Travel news
8:25	Sport
8:45	Holiday programme



Josh turns the radio on at 7:25 am.

How many minutes does he have to wait for the Weather report? 


The Holiday programme lasts for 40 minutes.

At what time does the Holiday programme finish? 

7. Here is part of a train timetable.

Edinburgh	–	09:35	–	–	13:35	–	–
Glasgow	09:15	–	11:15	13:15	–	13:45	15:15
Stirling	09:57	–	11:57	13:57	–	14:29	15:57
Perth	10:34	10:51	12:34	14:34	14:50	15:15	16:35
Inverness	–	13:10	–	–	17:05	–	–


How long does the first train from Edinburgh take to travel to Inverness?



Ellen is at Glasgow station at 1.30pm. She wants to travel to Perth.

She catches the next train.

At what time will she arrive in Perth?



8. One of these watches is **3 minutes fast**.

The other watch is **4 minutes slow**.

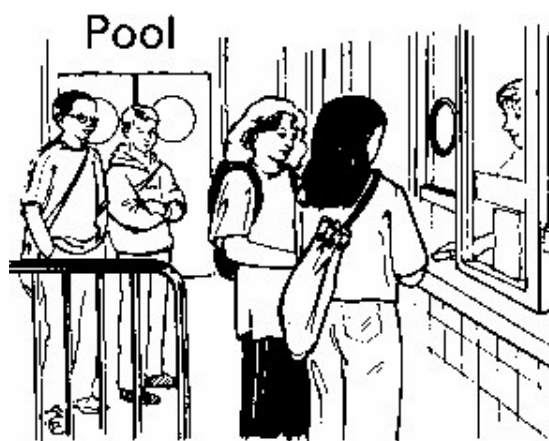
What is the correct time?





9. These are the opening times at a swimming pool.

	opening times		
	am		pm
Monday	Pool closed		
Tuesday			
Wednesday	10:30	to	5:30
Thursday	10:30	to	8:30
Friday	10:30	to	9:00
Saturday	8:00	to	6:00
Sunday	7:00	to	4:00



How many **hours** is the pool open on a **Sunday**?

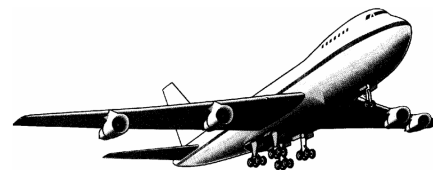
hours

10. An aeroplane takes off on Tuesday at

22:47

It lands on Wednesday at

07:05



How long in hours and minutes is the flight?

hours	minutes
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11. These are the start and finish times on a DVD recorder.

START **14:45**

FINISH **17:25**

For how long was the DVD recording?

hours	minutes
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12. Jamie, Kate and Hassan run a 50m race.

Kate's time is 13 seconds.

Jamie finishes 5 seconds before Kate.

Hassan finishes 3 seconds after Jamie.

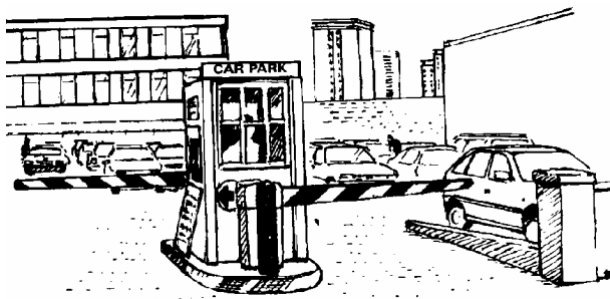
What is **Hassan's time** in seconds?



seconds



13.



Car Park charges	
Time	Charge
up to 1 hour	20p
1 to 2 hours	50p
2 to 3 hours	£1.00
3 to 4 hours	£1.70
over 4 hours	£5.00

Emma parks her car at **9.30 am**.

She collects the car at **1.20 pm**.

How much does she pay?



.....

Dan and Mark both use the car park.

Dan says,

'I paid exactly twice as much as Mark but I only stayed 10 minutes longer'.

Explain how Dan could be correct.



.....

14. Here are the sunrise and sunset times for some days in July.

Date	Sunrise	Sunset
7th	04:53	21:18
14th	05:00	21:12
21st	05:09	21:05
28th	05:18	20:55

How many minutes earlier is the **sunset** on 28th July than on 7th July?



.....minutes

15. Some children ran in two races on sports day.

Here are their times.

	100m race	800m race
Elise	15.9 seconds	3 minutes 02 seconds
Jake	19.7 seconds	2 minutes 58 seconds
Teri	16.8 seconds	3 minutes 01 seconds
Neil	17.1 seconds	2 minutes 59 seconds
Barry	18.4 seconds	2 minutes 57 seconds

Who finished the 100m race in **second** place?



.....

In the 800m race, how many seconds did Barry finish ahead of Elise?



.....seconds

- 16 These are the times letters are collected from a post box.

Monday to Friday	Saturday	Sunday
8am 2pm 6:30pm	11:30am	no collection



What is the **latest** time letters are collected on **Wednesday**?

Carla posts a letter at **9 am on Monday**.

How **long** will it be before it is collected?

Gareth posts a letter on **Saturday at 3pm**.

When is it collected from the post box?

 day time

17. Tom, Amy and Helen want to go on a boat trip.

There are three boats.

Lark	Heron	Kestrel
50 minute trip	70 minute trip	90 minute trip
Tickets £2.75 each	Tickets £3.50 each	Tickets £4.20 each

Tom and Amy go on the **Heron**.

They leave at **2:15pm**.

At what **time** do they return?

pm

Helen goes on the **Kestrel** and **gets back at 4:15pm**.

At what **time** did the boat leave?

pm

N21b

Real-Life Tables Timetables

1) Here is part of a railway timetable

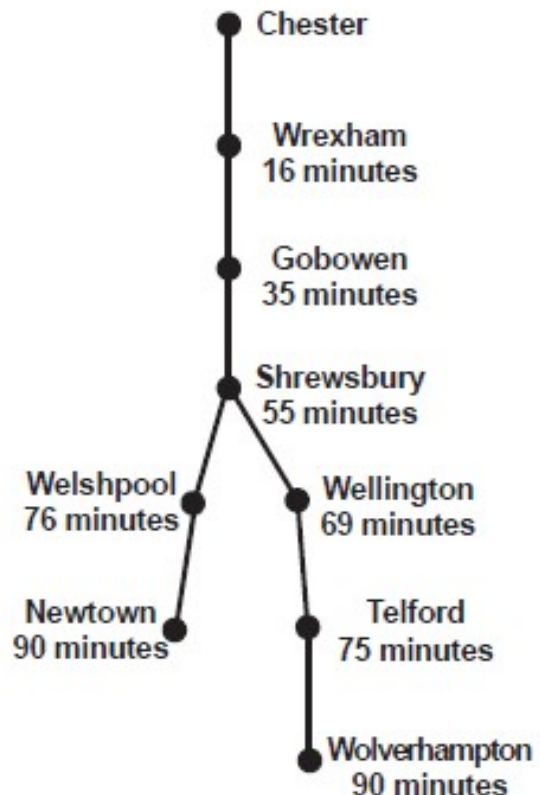
Stockport	05:26	06:16	06:55	07:15	07:55
Stoke	05:55	06:45	07:24	-	-
Stafford	06:12	-	07:41	-	08:41
Euston	08:09	08:26	-	09:11	10:06

- Rosie wants to travel from Stockport to Euston. She must arrive in Euston before 09:00.
 - What is the latest time she could depart from Stockport?
 - How long will her journey last?
- James gets to Stockport station at 07:00.
How long will he have to wait for the next train to Stafford?
- Alex travels to Euston.
She gets on the 07:24 train from Stoke.
How long will her journey take?

- 2) The train route diagram show the times it takes to travel from Chester to other major stations on the line.
Use the information in the diagram to complete the following timetables.

Chester	04:22
Wrexham	
Gobowen	
Shrewsbury	
Welshpool	
Newtown	

Wolverhampton	16:42
Telford	
Wellington	
Shrewsbury	
Gobowen	
Wrexham	
Chester	



1. Circle the time that is 30 minutes **before** midnight.



12:30 am

12:30 pm

11:30 am

11:30 pm

3 am

2. Put these times in order, starting with the shortest.

5 minutes

20 seconds

100 seconds

1 minute

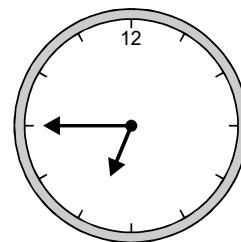


shortest

3. Here is a clock. How many minutes is it **until** this clock shows 7:30?



.....mins



Here is another clock. What time will the clock show in 20 minutes?



.....

14 : 53

4. The time is

8:15

John has to be ready for school in half an hour.

Tick (✓) the time when he has to be ready.

8:20

8:25

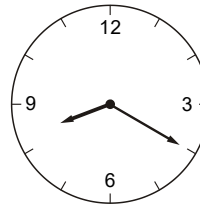
8:30

8:45

8:55

5 . Here are two clock faces.

Join each clock face to
the correct digital time.



9:20

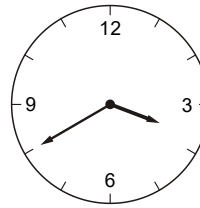
3:40

4:40

8:40

8:20

4:20



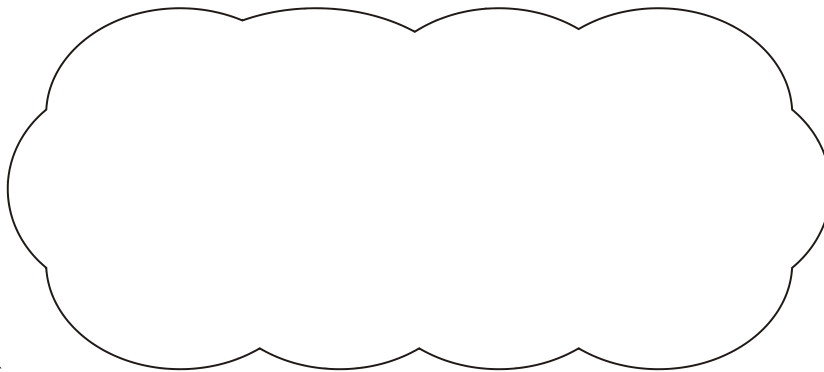
6. The time is 10:35am.



Kate says,

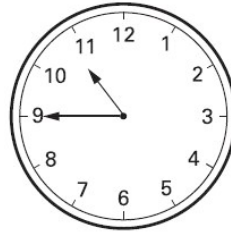
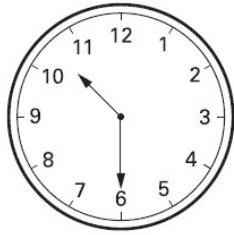
'The time is closer to 11:00am than to 10:00am'.

Explain why Kate is correct.

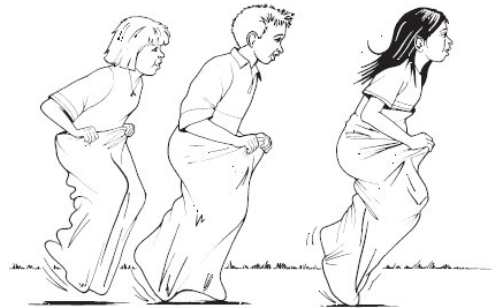


7. **Two** clocks show the same time.

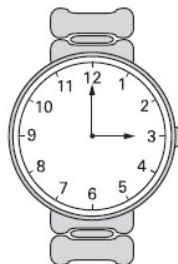
Tick (✓) them.



8. The Fun Day started at this time in the morning.



It finished at this time in the afternoon.

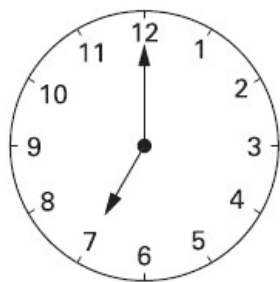


How long did the Fun Day last?

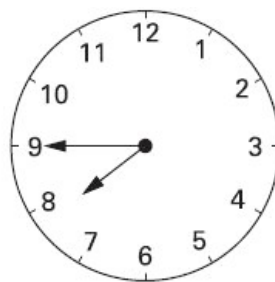


hours	minutes
-------	---------

9. These clocks show the **start** and **finish** times of a TV programme.



start



finish

For how many minutes does the programme last?

mins

10. Jack leaves for school at this time.

It takes him **40 minutes** to get to school.

Tick (✓) the time Jack gets to school.

☐☐☐☐☐

11. This was the time on Selin's watch when she **set off** for a walk.

1What time did the watch show 20 minutes **before** this?

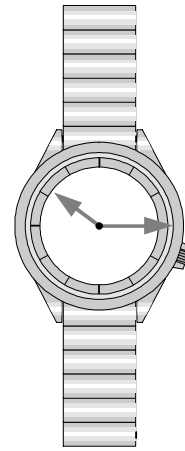


.....

What time did it show an hour and a half **after she set off** for the walk?

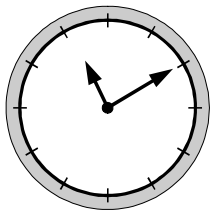
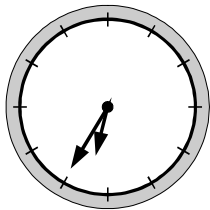
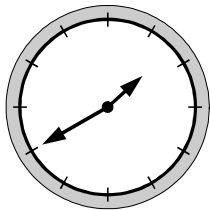


.....



12. Here are three clock faces.

Match each clock face to the same time on a digital clock.



11:10

2:55

1:40

8:10

6:35

7:35

- 1) Which four coins make a total of 77p?
- 2) Six bars of metal each weigh 2.75 kg.
How much do they weigh altogether?
- 3) At a party for 171 people, 9 guests
sat at each table.
How many tables were there?
- 4) Coke cans cost 43p each.
How many cans you buy with £6?

- 5) Olivia went to a cafe.
She ordered:

2 sausages
Baked beans
3 coffee
1 juice

	
Menu	
 Fried eggs	30p
 Baked beans	45p
 Sausages	38p
 Coffee	65p
 Tea	72p
 Juice	50p
	

She paid with a £5 note.
Work out how much change she got.

- 1) Cheese is on offer at £3.26 per kilogram.
Emma buys half a kilogram.
How much change does she receive from a £10 note?

- 2) A mug and a plate together cost £2.90.
The mug cost 40p more than the plate.
How much does the plate cost?

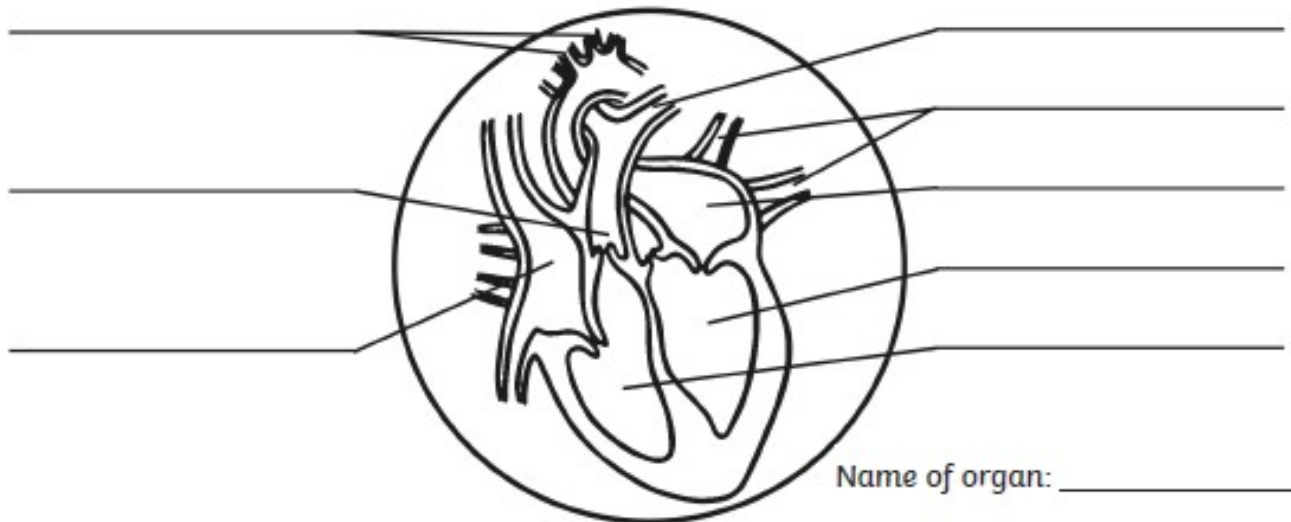
- 3) A man is 27 cm taller than his son, who is 8 cm shorter than his mother. The man was born 42 years ago and is 1.78 m tall.
How tall is his wife?

- 4) A bus starts at Birmingham and makes three stops before reaching London.
At Birmingham, 37 people get on.
At Rugby, 13 people get off and 6 get on.
At Willen, 9 people get off and 15 get on.
At Luton, 24 people get off and 8 get on.
How many people are on the bus when it reaches London?

- 1) There are 7 people in a team.
How many teams can you make from 131 people?
- 2) A motorist bought 26 litres of petrol at £1.19 per litre.
 - a) How much did it cost?
 - b) What change did he get from £50?
- 3) A museum trip is organised for 57 members of a youth club. They go in minibuses that can each seat up to 15 people.
It costs £42.50 for each minibus and £172 for the group to access the museum.
How much will the trip cost per person?
- 4) Mars Bars cost 35p. Skittles cost 45p.
Gillian bought 5 bags of Skittles and some Mars Bars.
She paid with a £5 note and received 30p change.
How many Mars Bars did she buy?

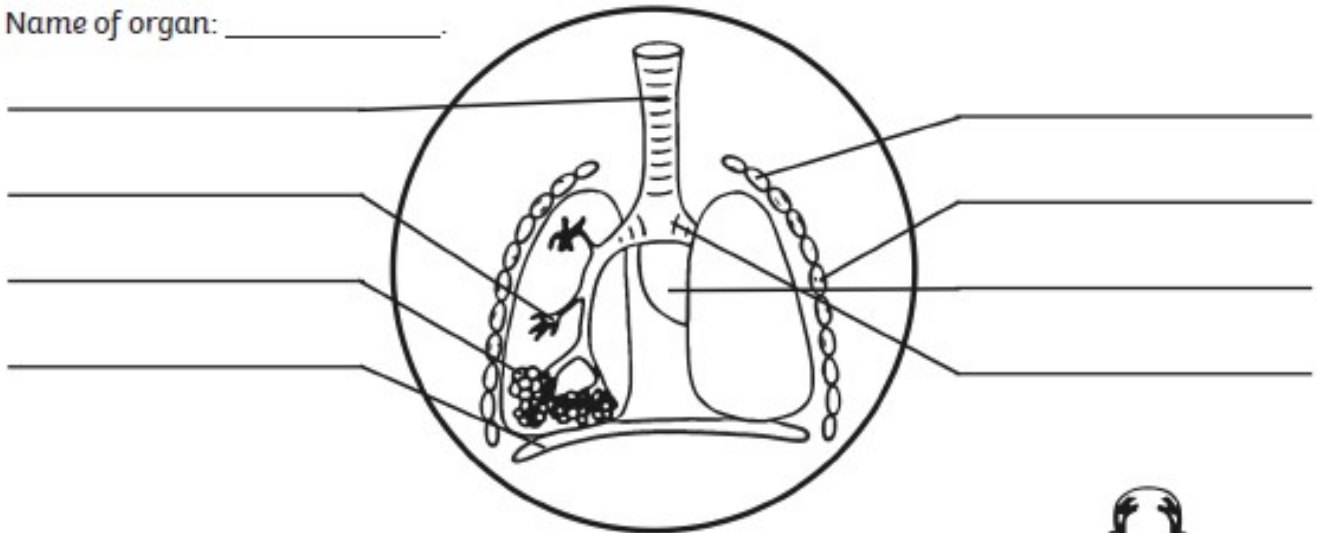
The Human Circulatory System

Label the parts of the circulatory system.

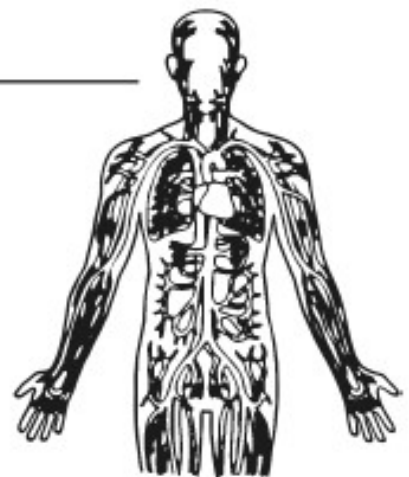
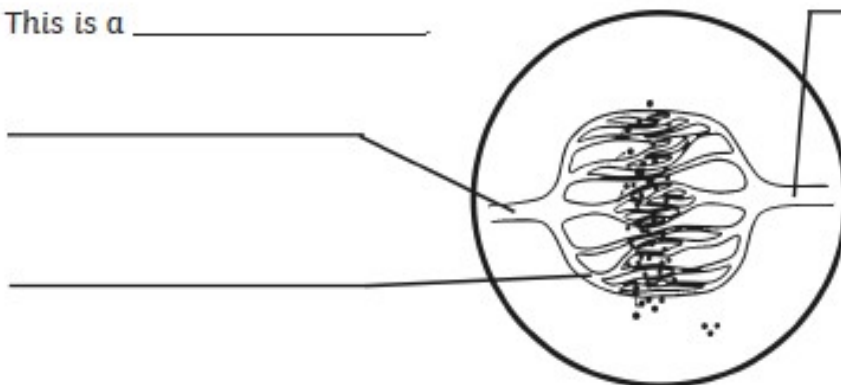


Now draw arrows onto the heart to show the direction of oxygenated and deoxygenated blood.

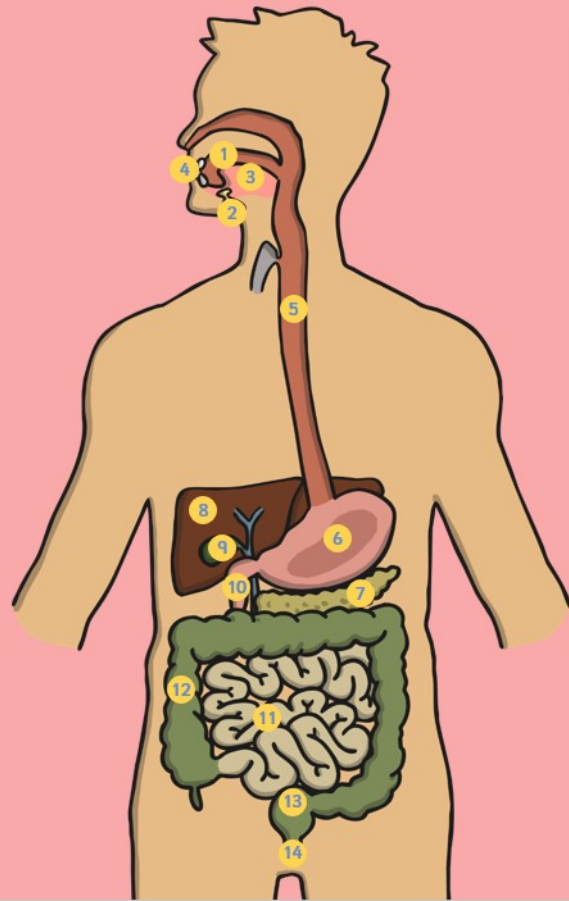
Name of organ: _____



This is a _____

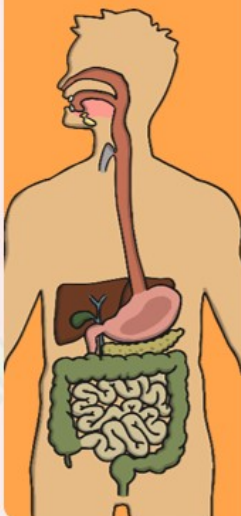


1. **Mouth:** Food enters the system
2. **Salivary glands:** Produce saliva which contain an enzyme called amylase. This breaks down starch in carbohydrates.
3. **Tongue:** Mixes food with saliva.
4. **Teeth:** Tear, cut and grind food.
5. **Oesophagus:** Tubes that leads food to the stomach.
6. **Stomach:** Produces enzymes and acids to break food down. Churns food into small pieces. The mixture of stomach acids, enzymes and food is called 'chyme'
7. **Pancreas:** Produces enzymes to break down fats, carbohydrates and proteins which are released into the duodenum.
8. **Liver:** Produces bile that breaks down fats.
9. **Gall Bladder:** Stores bile and releases it to the Duodenum when needed.
10. **Duodenum:** First part of the small intestine. Food is broken down by bile and enzymes.
11. **Small Intestine:** Nutrients are absorbed into the bloodstream here. Remaining food is passed to the large intestine.
12. **Large Intestine:** Absorbs water from remaining food. This food forms into stools.
13. **Rectum:** Stores stools and signals to the brain that there are stools that need releasing.
14. **Anus:** Stools are released out of the body.



How Does It Work?

What about Water?



Water enters the body in the mouth. Unlike other nutrients it is not broken down by enzymes or bile.

A small amount of water is absorbed through the stomach but the majority passes through to the small intestine.

Water is absorbed in the small intestine in the exact same way as other nutrients are absorbed – through the villi into bloodstream via the blood vessels.

The large intestine (also called the colon) is similar to the small intestine in structure except that it does not contain villi. By the time waste material reaches the large intestine, 90% of water has already been absorbed.

The waste food enters into the cecum which is the first part of the large intestine. It moves through the large intestine through a series of **mass movements**. These are long, slow moving waves of muscles contracting and relaxing. The rest of the water in the waste food is absorbed in all the different parts of the colon. The resulting stool and any gases are moved to the sigmoid colon. It is this part of the large intestine that enables gases to be released without releasing stools at the same time. The stools then enter the rectum before expulsion through the anus.

