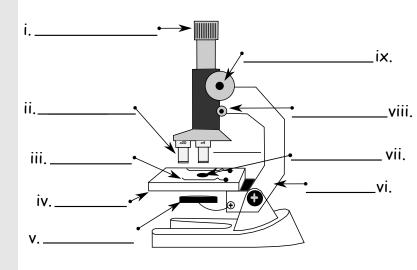
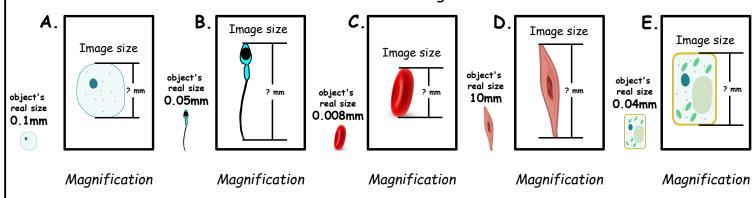
Student Answer Sheet: Light Microscope

- 1. Using the book, complete the gap filling exercise on The Light Microscope below.
- 2. Using the words from the book, label the microscope below.



3. Use the instructions from the book to calculate the magnifications below.



4. Transfer the numbers from the book and calculate the missing information.

Image size (mm)	Object size (mm)	Magnification

- 5. Use the book to write your answers below.
- 1. Used to roughly focus the image_____
- 2. Holds the slide in place _____
- 3. Provides different magnifications of the specimen_____
- 4. Allows light to pass through the stage and onto the specimen_____
- Provides small adjustment in focusfor the clearest image_____
- 6. The lens that is used to view the image ____
- 7. Where specimens are placed for viewing_____
- 8. Used to reflect light on the specimen_

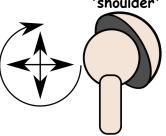
Student Answer Sheet: Cells

	Student A				
1.	Using the book, complete the gap filling	ig exercise on Cells	s below.		
2.	i. Use the words from the book to labe c	:l the plant and ani	mal cells below.		
	E F		<i>c</i> → D		
	ii. Write your list to answer the quest	ion from the book	below.		
3.	Write the name of the organelle next t Organelle	•	words in bold fro b of Organelle	m the book.	
	a. co b. pr c. co d. wh e. co	entains the DNA (in Provides support for Intain chlorophyll for Prere the chemical n Intains cell sap Prere energy is rele Introls what goes in	nstructions for mo the cell for photosynthesis reactions take plo ased by respiration	s ace on	
4.	Choose the correct beginning of the so write it next to the correct letter.	entence from the l	oook and		
		b . them to swim to c . contract creating	flow through blood ve a woman's egg to fer g movement through surface area for abs	tilize it.	ients.
5. :	Levels of organisation. Use the descrip	tions from the boo	ok to write your a	nswer in the space	belo
1.	1. → 2. →	3.	4.	5.	
ii.	Names of other organ systems.				

Student Answer Sheet: The Human Skeleton and Bones

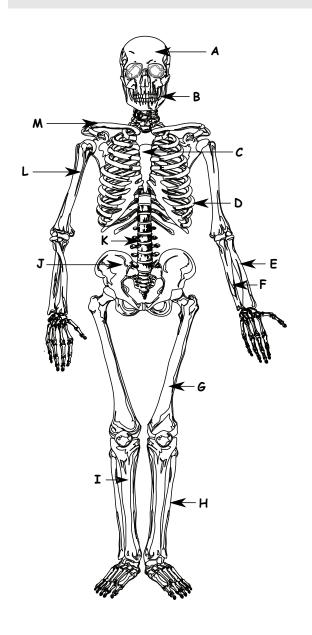
1. Using the book, complete the gap filling exercise 4. on The Human Skeleton and Bones below.

ball and socket joint 'shoulder'



Write your description below.

2.

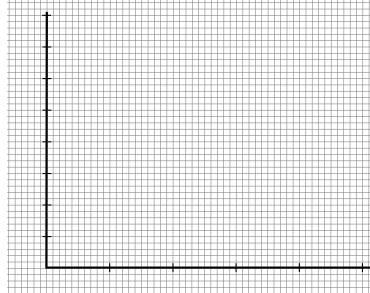


3. Write the words in bold from the book into the correct column.

Exoskeleton	Endoskeleton

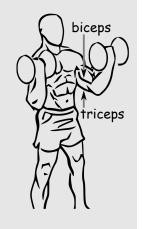
5. ii. Explanation.

5. i.

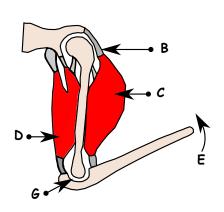


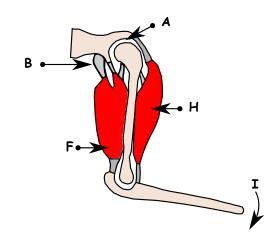
Student Answer Sheet: Muscles and Forces

1. Using the book, complete the gap filling exercise on Muscles and Forces below.



2. Label the diagrams below using the words in bold from the book.





Using the book, write your answers in the space below.

i.

3.

vi.

ii.

vii.

iii.

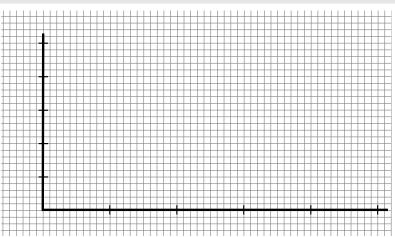
viii.

iv.

٧.

ix.

4. Plot your histogram opposite using the data from the book.



Student Answer Sheet: The Respiratory System, Breathing

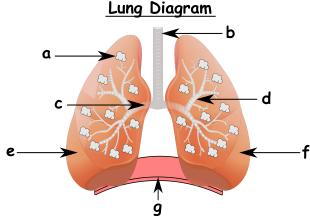
Using the book, complete the gap filling exercise on The Respiratory System, Breathing below. 1.

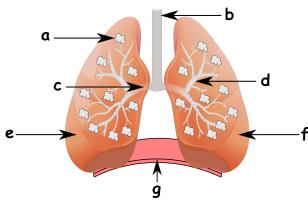
- 2. Match the numbers to the letters to make eight correct sentences.
 - 1. As the diaphragm moves down
 - 2. Air enters our lungs through
 - 3. As the diaphragm moves up
 - 4. The wind pipe branches into two
 - 5. O₂ is
 - 6. Alveoli are
 - 7. Gas exchange happens due to
 - 8. CO₂ is

- a. expelled through the lungs.
- b. the lungs contract.
- c. absorbed through the lungs.
- d. tiny air sacs.
- e. diffusion.
- f. the lungs expand.
- g. bronchi.

Alveoli

h. the wind pipe.





4 a. Using the book, write your answers below.

i.

ii.

iii.

Using the words from the book, label the diagram of the lungs above.

iv.

3.

5.

٧.

vi.

b. Label the diagram of the alveoli using the descriptions from the book.

Write statements a. to h. from the book in the correct order to describe breathing in and out.

1st.

2nd

3rd.

4th.

5th.

6th.

7th.

8th.



Student Answer Sheet: Respiration

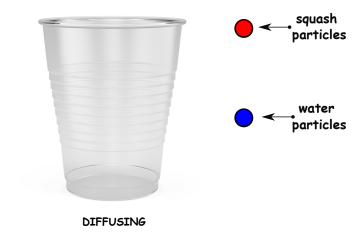
Using the book, complete the gap filling exercise on Respiration below. 1. Answer Answer 2. water condenses on the mirror limewater turns cloudy 3. Use the labels from the book to complete the equations below. aerobic anaerobic 6 ii. 4. Label the arrows using the chemical formulae from the book. iii. Animal Cell 10.0-8.0 -5. **Answers** 6.0 -4.0 ii. 2.0 20 30 50 60

Student Answer Sheet: Diffusion

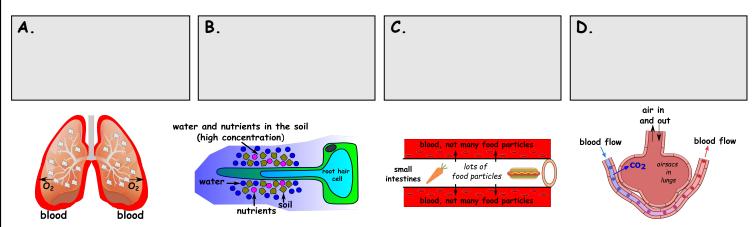
1. Using the book, complete the gap filling exercise on Diffusion below.

- 2. Complete your 'part way' through diffusion diagram on the beaker shown opposite.
- 3. Use the book to write the statements about dye diffusing under the correct temperature.

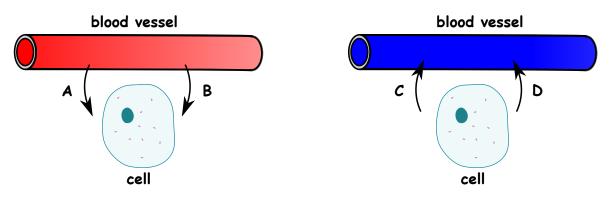
Water	at 90°C
Water	at 10°C
	100
Water	at 40°C



4. Write the descriptions in italics from the book in the correct box.

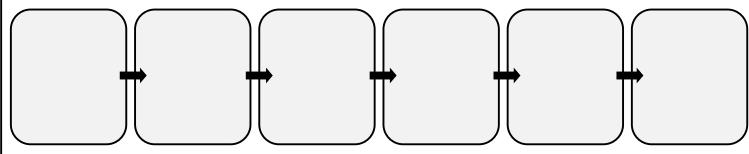


5. Label A. to D. below using the words from the book.



	Student Answer Sheet: The Human	Digestive System
1.	. Using the book, complete the gap filling exercise on The Hu	man Digestive System below.
2.	digestive system. i.	nswers nscrambled peristalsis examples.
4.	4. Write your answer to the matching exercise in the space be a. Absorbs water from the water f	vaste food th to the stomach I I and enzymes are added here k down fats down food is absorbed into the blood

- h. Waste faeces are excreted here
- 5. Digestion flowchart.



- 6. _____ a. Bloating, diarrhea, constipation and stomach cramps.
 - **b**. Loose, watery bowel movements.
 - c. Difficulty in going to the toilet. Passing firm stools.
 - d. Heart 'burn', feeling sick or bloated.
 - e. Fever, fatigue, diarrhea and cramping. Named after Dr Burill Crohn.

Student Answer Sheet: Enzymes

1. Using the book, complete the gap filling exercise on Enzymes below.

Answer 2 iii.

Write the words from the book next to the correct description.

_____ **a**. enzymes that break down sugar

b. substances that speed up chemical reactions without being used up

c. enzymes that break down proteins

Temperature (°C)

d. a biological catalyst

e. enzymes that break down carbohydrates

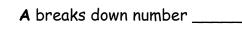
f. enzymes that break down fats



















B breaks down number _____

C breaks down number ____

Write your answers about enzymes in the space below.

i.

iv.

Broken pieces

ii.

2.

3.

4.

5.

٧.

iii.

Student Answer Sheet: Food Fuel

ii.

1. Using the book, complete the gap filling exercise on Food Fuel below.

%RI Nutritional information chocolate biscuits Per 100g Per 100g Per biscuit Energy 220 kJ 26% 0.54 g Protein 11% 2.8 g 40% Fat (of which are saturated fats) 1.4 g 6.2 g Carbohydrates 24% 4.4 g (of which are sugars) 0.4 g Dietary fibre 13% 0.08 g Sodium (salt) 13%

Nutritional information	multigrain cereal	%RI
	Per 100g	Per 100g
Energy	1500 KJ	
Protein	9.3 g	
Fat	2.9 g	
(of which are saturated fats)	0.6 g	
Carbohydrates	69 g	
(of which are sugars)	17 g	
Dietary fibre	12 g	
Sodium (salt)	0.5 g	

Activity

Activity

4. Answers

i. ii. iv.

iii. Fo

2

3.

Food type	°C rise
biscuit	
pasta	
peanut	
crisps	

٧.

Student Answer Sheet: A Healthy Human Diet

1.	Using the book, complete the	gap filling exercise on A He	ealthy Hum	an Diet below	<i>'</i> .
2.	Use the book to write the cor	rect food group next to th	e descritio	on below.	
	b. need c. undig d. prov e. for e f. need	growth and repair of tissue led by the body in small am gestible food essential for ide energy energy stores and insulation ed by our cells to work prop ain elements needed by the	ounts to st a healthy g n perly and a	ids digestion	
					-
3.	Most	Lethargy		icurvy	Rickets
		Group of foods	Angle (°)	Percentage	
		Bread, rice, potatoes, pasta	119°	rercentage	7
		Dairy	50°		8 7
		Fruit and vegetables	130°		
		Meat, fish, eggs, beans	36°		
	Least	Fatty and sugar foods	25°		4 4
4.	Using the book, write your an	swers in the space below.			
	i.	vi.			
	ii.	vii.			
	iii.	viii.			
	iv.	ix.			
	v .	×.			
5.	<u>Saturday</u>			Sunday	

Student Answer Sheet: Drugs and their Impact

1.	Using the book, complete the gap filling exercise		
2.	Use the book to write the correct drug type nex	·	Tion.
	b. slows dow c. drugs tha d. speed up e. drugs tha	en for pleasure In nerve activity can mak It help us get better fron Inerve activity can make y It cause loss of sensation It treat bacterial infection	n illness you feel energised (pain relief)
3.	Use the words in italics from the book, write ou	t your correct order.	
	1. 2.	3.	
	4. 5.		
	6. 7.		
4.	i. and ii. Use the book to complete the table below	w.	
	Negative effect	Drug Name	Stimulant/Depressant?
	a. Drinking too much can damage the liver. Slows nerve activity.		
	b. Snorting causes damage to the nose. Speeds nerve activity.		
	c. Smoking too much can cause paranoia. Slows nerve activity.		
	d. Often injected, highly addictive and many negative side effects e.g. easy to overdose and die. Slows nerve activity.		
- 1	e. Long term use can lead to anxiety or depression		

Negative effect	Drug Name	Stimulant/Depressant?
a. Drinking too much can damage the liver. Slows nerve activity.		
b. Snorting causes damage to the nose. Speeds nerve activity.		
c. Smoking too much can cause paranoia. Slows nerve activity.		
d. Often injected, highly addictive and many negative side effects e.g. easy to overdose and die. Slows nerve activity.		
e. Long term use can lead to anxiety or depression (opposite to the drugs name). Speeds nerve activity.		
f. The drug in cigarettes that makes them addictive. Cigarettes cause cancer. Speeds nerve activity.		
g. Too many energy drinks can cause heart rythm problems. Speeds nerve activity.		

5. Using the words in bold from the book, write the correct drug name under the correct image.

A.















List of medicines. 6.

Student Answer Sheet: Exercise, Asthma and Smoking

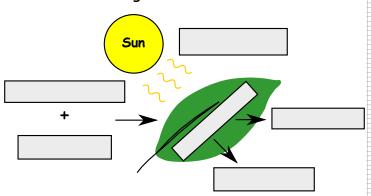
1.	Using the book, con	nplete the gap filling exer	cise o	n Exercis	se, Asthma a	nd Smoking below	
2.	Using the book, wri	te the statements in bold	in the	correct	column.		
		ens immediatelty/ exercising		Effe	ect happens longer term		
3.	Use the book to wr	ite the correct description	n next	t to the w	ords in bold		
		 a. the addictive drug b. an activity that rec c. a sticky brown subs d. a disease of the ai e. a toxic gas from si the blood to carry 	quire p stance rways moking	physical e from sm causing b that rec	oking reathlessne:		
4.	Use the book to wri	te the statements in the	, _		or an asthm	a attack.	
	1st	4th				ا الله	i)
	2nd	5th				مي ٿ	
	3rd						
5.	i.	Answers	6.	a.	A	nswers	
				b.			
	ii.			C.			
	iii.			d.			
				e.			

Student Answer Sheet: Photosynthesis

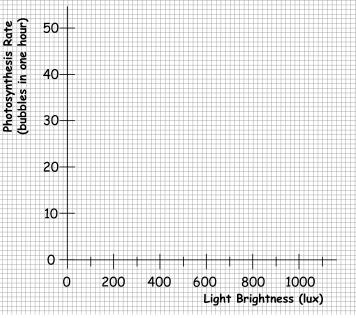
Using the book, complete the gap filling exercise on Photosynthesis below. 1.

Unscramble the words from the book 3. i. Plot your graph on the grid below 2.

to label the diagram below.



3 ii. Use the words from the book to correctly describe how the rate changes below.



Match the words from the book to their correct meaning. 4

a. a gas produced by photosynthesis, chemical formula O_2

b. the liquid involved in photosynthesis, chemical formula H_2O

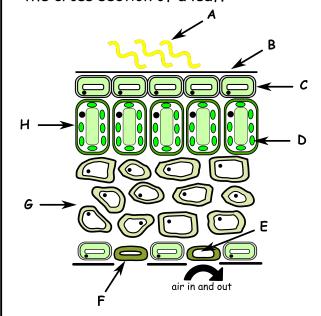
c. a gas absorbed by photosynthesis, chemical formula CO_2

d. a green pigment found in leaves for photosynthesis

e. a sugar produced by photosynthesis, chemical formula $C_6H_{12}O_6$

f. pores on the underside of a leaf to control gas exchange

5. Use the words from the book to label the cross section of a leaf.



6. Answers

ii.

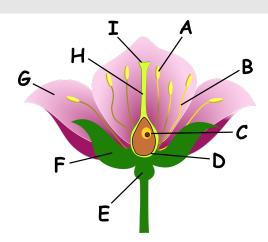


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Student Answer Sheet: Flowering Plants and Seed Dispersal

1. Using the book, complete the gap filling exercise on Flowering Plants and Seed Dispersal below.

2. Use the words from the book to label the parts of a flower.



3. Use the book to write the correct description next to the flower's parts.

 a. Produced when pollen and ovule fuse, can grow int 	o a new plan
b. The female sex cell (egg equivalent)	
 The made according to the second section of the second	

- c. The male sex cell (sperm equivalent)d. Where pollen is produced and stored
- e. Supports the anther
- f. Where pollen lands to fertilise the ovule

 After fertilisation the overy develops into this
- g. After fertilisation the ovary develops into this

4. Using the book put the letters **a**. to **g**. in the correct order for a plant undergoing cross pollination because of a honey bee flying from one plant to another.

1st	 ->
2nd	 ->
3rd	 —
4th	
5th	
6th	
7th	
/ [/]	



Use the questions in the book to write about why each statement is important.

i.

5.

ii.

iii.

i٧.

٧



Sandbox tree seeds can be thrown over 100m far and wide when the fruit explodes!

Student Answer Sheet: Growing up (Adolescence)

1. Using the book, complete the gap filling exercise on Growing up (Adolescence) below.

2. Using the book, write the changes that happen during adolescence in the correct column.



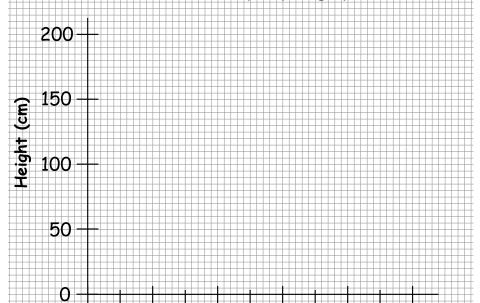
Girls



Often teenagers don't get enough sleep. Get to bed!



3. Use the data from the book to plot your graph below.



8

12

Age (years)

16

20

- 3. Write your answers below.
- iii.
- iv.
- ٧.
- vi.

4. Using the book, write your unscrambled words below

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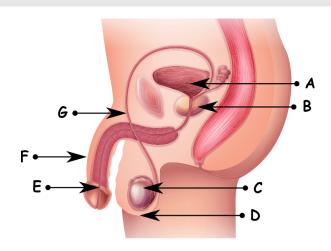
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4

Student Answer Sheet: Reproduction in Humans, Men

1. Using the book, complete the gap filling exercise on Reproduction in Humans, Men below.

2. Using the words from the book, label the diagram opposite.



3. Using the book, write the correct description next to the organ in bold.

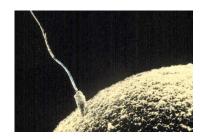
 a. Tube inside the penis for carrying urine and semen
 b. Used for urination and carrying sperm
 c. The glands that produce sperm
 d. A sac of skin that contains the testicles

- e. This gland adds a fluid to sperm to provide energy
- f. Tube connecting the testes to the urethra
- q. Stores urine for excretion

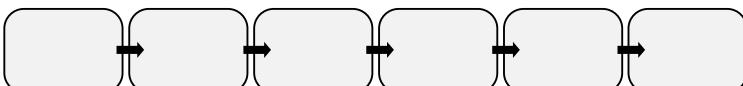
4. Write the statements from the book into the correct column.

Males before becoming sexually mature	Males after becoming sexually mature





5.



	production in numans, women
Using the book, complete the gap filling e	exercise on Reproduction in Humans, Women, below.
label the diagram using the words in bold from the book.	 3. Use the book to write the correct word next to the correct description. a. an opening for childbirth and sextends b. where a woman's eggs are made c. acts like a door to the womb d. carries eggs to the uterus e. where the baby grows f. the release of an egg 4. Write the unscrambled words from the book below.
Use the data from the book to plot your bar chart below.	b. Write your answers below.
	i. ii. iii. iv. v. vi. advantages disadvantages
	label the diagram using the words in bold from the book. Use the data from the book to plot your

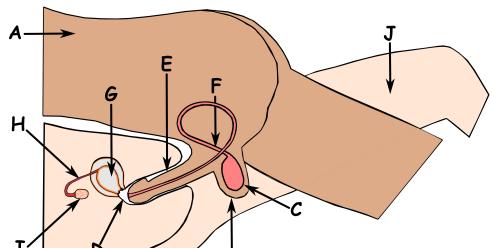
Student Answer Sheet: Sexual Intercousre and Pregnancy

1. Using the book, complete the gap filling exercise on Sexual Intercourse and Pregnancy below.

2. i. Using the words from the book, label the diagram below.

ii. Label the stages showing after intercourse.









3. Using the book, write your answers in the space below.

- i. vi.
- ii. vii.
- iii. viii.
- iv. ix.
- v. x.

4.

i. Plot
your
graph
opposite.

Write your answers below

ii.

iii.

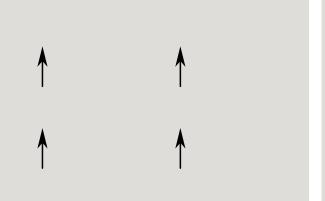
iii.

Student Answer Sheet: Food Chains and Webs

	Stadent Ans	wei Sileet. 1 o		VVCDS
1.				
2.	i. Use the book to put the pr	oducers and consumers	in the correct column.	2
	producer	consumer	consumer	
	a. —	→ -	→	Food Fnergy
	b. —	→	>	<u>chain</u>

producer	consumer	consumer	
a.	→ -	-	Food
b.		→	<u>Food</u> chain
C.			
d.	→ -	→	
<u>е</u> ,		→	

ii. Write food chains a. and b. from the book below and show how they can form a food web.



- 3. Use the book to write your answers below.
- b.
- d. Use the book to solve the jumbled words and write your answers below.

- Use the pond food web from the book to 4. write your answers below.

 - b.
 - c.
 - d.
 - e.
 - f.
 - g.

5. a. Food chains for question 5 a. from the book.



b. Your answer about being a vegetarian below.

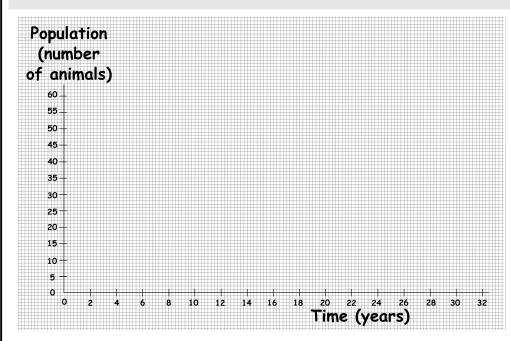
Student Answer Sheet: Pyramids of Numbers and Toxins

••	Using the book, complete the gap filling exercise on Pyramids of Numbers and Toxins below.
	Example Pyramid of Numbers
	2 foxes
	100 rabbits
	1,000 Ma grass plants Ma
2.	Label each level in the pyramid of numbers using the information in the book.
	a. b. c. d.
3.	Draw your own pyramid of numbers for the food chains shown in the book.
	i, ii,
4.	i. Complete the units of mercury using the numbers from the book.
	phytoplankton zooplankton herring tuna shark
	zooplankton eat 100 herring eat 100 tuna eat 100 shark eats 10 contain 1 unit of phytoplankton zooplankton herring tuna
	mercury units of mercury
	Complete your answers from the book below. ii. iii.
5.	Complete your engineers from the healt below
	Complete your answers from the book below. i. v.
	ii. vi.
	iii. vii.
- 1	iv.

Student Answer Sheet: Predator, Prey and Populations

1. Using the book, complete the gap filling exercise on Predator, Prey and Populations below.





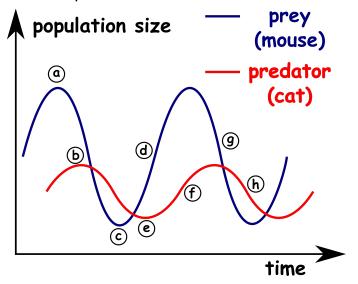
3. i. Using the data from the book complete your graph opposite.

Write your answers from the book below.

ii.

iii.

Label a. to h. on the predator prey graph using the descriptions in bold from the book.



4. i. Use the book to write your unscrambled words below.

Write your sentence book below. ii.

Write your answer from the book below. 5 i.

5 ii.

2.

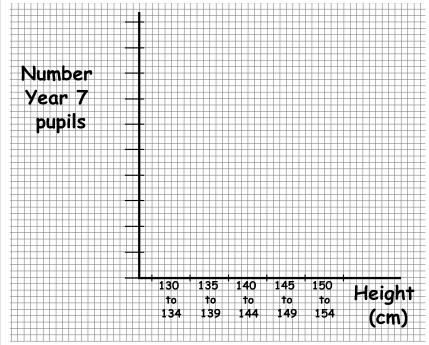
Student Answer Sheet: Genetics and Inheritance

l.	Using the book, complete the gap filling exercise on a Genetics and Inheritance below.
2	Use the words in bold from the book to write the correct word next to the correct description.
;	a. Only produces the characteristic with another weaker gene b. Sections of DNA that carry the information for our traits c. Carry genetic information d. A feature or trait of an individual e.g. eye colour e. A stronger gene that determines the characteristic f. Traits due to effects of the environment, e.g. a sun tan g. Molecule that makes up chromosomes, has a double helix shape
3.	Using the example in the book to help, complete the Punnett Square combintations 1. to 4. and state how many offspring have blue eyes out of the four possible outcomes. Punnett squares 1 B B B Mom b Dad 3 B B Mom b Dad Mom b Dad Mom b Dad Mom b Dad Amom b Dad Mom b
4.	i. Using the book, put the examples in the best column. Genetic traits Environmental traits ii. Traits influenced by environment and genes.

Student Answer Sheet: Variation

1. Using the book, complete the gap filling exercise on Variation below.

2. i. Use the data from the book to plot your histogram on the grid provided below.



ii. Using the data from the book, plot your bar chart of percentage blood type on the grid provided.

A		
9 112		
% UK		
population		
DODUIGION		
population		
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		
		
		
		
		
		
		
	Blood typ	
	DIUUU IVI	

3. Using the book, write the traits in the correct column.

Continuous data	Discontinuous data

4. Write your answer about environmental factors below.

i.

ii.



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Student Answer Sheet: Adaptation

1.	Using the book, complete the gap filling exercise on Adaptation below.
2.	i. Using the book, unscramble the words that describe some of the characteristics of the species shown.
	i. Characteristics Characteristics Characteristics Characteristics
	ii. Trait explanation Trait explanation Trait explanation Trait explanation
3.	My own adapted animal design.
	Polar bears have a small surface area to volume ratio reducing heat loss Surface area: Volume Surface area: Volume 6:1 Surface area: Volume Surface area: Volume 24:8 or 3:1
4.	Using the book, write your answers in the space below.
	i. Vi.
	u.
	iii.
	iv. Viii.

Student Answer Sheet: Biodiversity and Gene Banks

1.	Using the book, complete the gap filling exercise on Biodiversity and Gene Banks in below.				
				DRACONTY DRACONTY DRACONTY DOCK ROTATO FINANCIA CONTINUE DOCK ROTATO FINANCIA CONTINUE CONTINUE WATER ROCORDION	
2.	i. Using the images from the boo			r not and why? box.	
	A meadow Diverse or not and why?	Coral Diverse or not and	reef	A field with cows grazing Diverse or not and why?	
	A rain forest Diverse or not and why?	A potation Diverse or not and	to field why?	<u>Cryobank</u>	
	ii. Write your unscrambled eco	system words below.			
•					
٤.	Advantages			Disadvantages	
	i i				

Student Answer Sheet: Evolution and Natural Selection

					na Matarai Sciection	
1.	Using the boo	k, complete the	gap filling exe	ercise on Evolu	tion and Natural Selection below.	
2.	oldest to mo	e. in order from ost recent in the Homo sapiens. Most recent Oldest		-	rambled words below for the an do because of their big brains. 8. 9. 10. 11. 12. 13. 14.	
3.			a. † b. a c. † d. † e. † f. c	he characteris animals with the his happens to to change over the surrounding arry the inforr	gs and external conditions mation for how we grow	or
4.	Cheetah Polar bear	rait you know of Elephant Venus flytrap	Giraffe Cactus	Camel Shark	ii. Write your answers below.	
	- 100		F			

Student Answer Sheet: The Blood and Fighting Disease

1.	Using the book, complete the gap filling ex	vercise on The Blood and Fighting Disease below.
2.		olood that carries platelets, red and white blood cells wounds to stop bleeding
	d. produce anitibodie	red blood cells
3.	Using the book, write your answers in the s	space below.
	i.	vi.
	ii.	vii.
	iii.	viii.
	iv.	Phagocyte engulfing and digesting a germ
	v.	
4.	Using the words from the book, answer the 'trivia' questions below.	Find the 'blood' words from the book in the word search below.
	 a. Which blood cell carries oxygen? b. What is the liquid portion of blood called? c. What % of blood are white blood cells? d. Fish don't have blood? e. There are 8 main blood groups? f. O+ is the most common blood group? g. A well known saying is 'it is like getting blood from a'? h. The colour of blood is always? i. It is a misconception that blood is? j. An average adult has about two pints of blood? k. Hypertension is the medical name for 	A B C D E H Y P E R T E N S I O N F G H I J F I G H T D I S E A S E S K L M N O P G Q R S T U V W X Y Z L I C I Z U K H Y A N T I B O D I E S G K V R E D B L O O D C E L L S L G J T W A U P L A S M A V C D W P B R M S H F R F O N T N W B Y I D I B U J A I Q G K O A F C E L L S O E E C H C T C O D D E P H A G O C Y T E D B U E W K H P M K V U R C E E S O O U N X F K L R I Z A L C R N P E X V C I A P X R E A Z S Y X N I G B Y Q Y O X L B S S C R U R G B W E X G C O R A O F S S N E U T R A L I S E M I N T M G N U T V L W P J Y O I N J B W E B O M R D I R L U S A P O K B X

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I. Sickle cell anemia is a blood _

Student Answer Sheet: Food Tests

1. Using the book, complete the gap filling exercise on Food Tests below.

Protein molecule (connected amino acids)



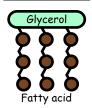
Sugar molecules



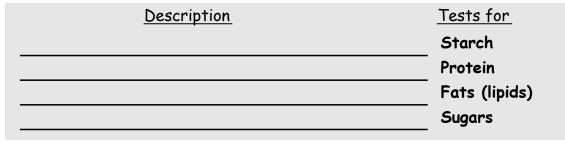
Starch molecule (connected sugar molecules)



Fat molecule



- i. Match the food test to what it tests for in foods by writing the correct description from the book next to the correct food group.
- ii. Match the words in bold to the correct diagrams by drawing arrows.



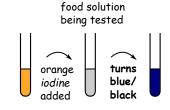
food solution

being tested

blue benedict's orange purple biuret added Complete the 'food contains' column using

food solution

being tested





the test results from the book.

Test food	Food contains
Pasta	
Cheese	
Rice	
Ham	
Nuts	
Haribos	

4 i. Order of items. 1st 2nd

3rd 4th 5th 6th

Answers

4

2.

3.

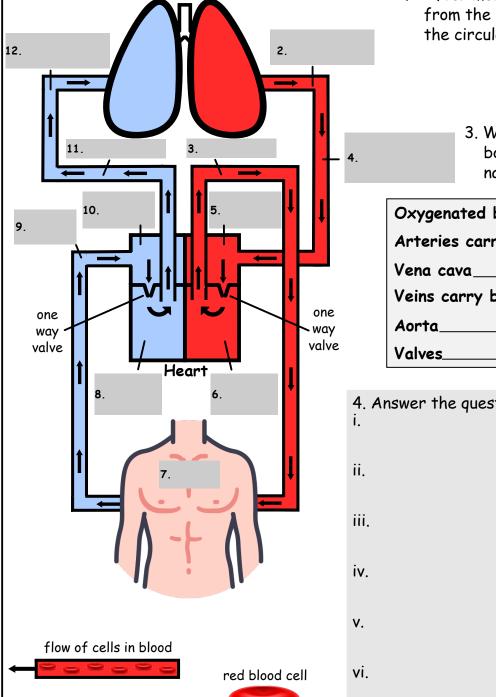
ii.

iii.

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Student Answer Sheet: The Circulatory System

1. Using the book, complete the gap filling exercise on The Circulatory System below.



After memorising, use the names in bold from the book to help label the diagram of the circulatory system shown opposite.

3. Write the statements from the book next to the correct names in bold.

Oxygenated blood______
Arteries carry blood______
Vena cava_____
Veins carry blood______
Aorta_____
Valves_____

4. Answer the questions from the book below.

vii.

viii.