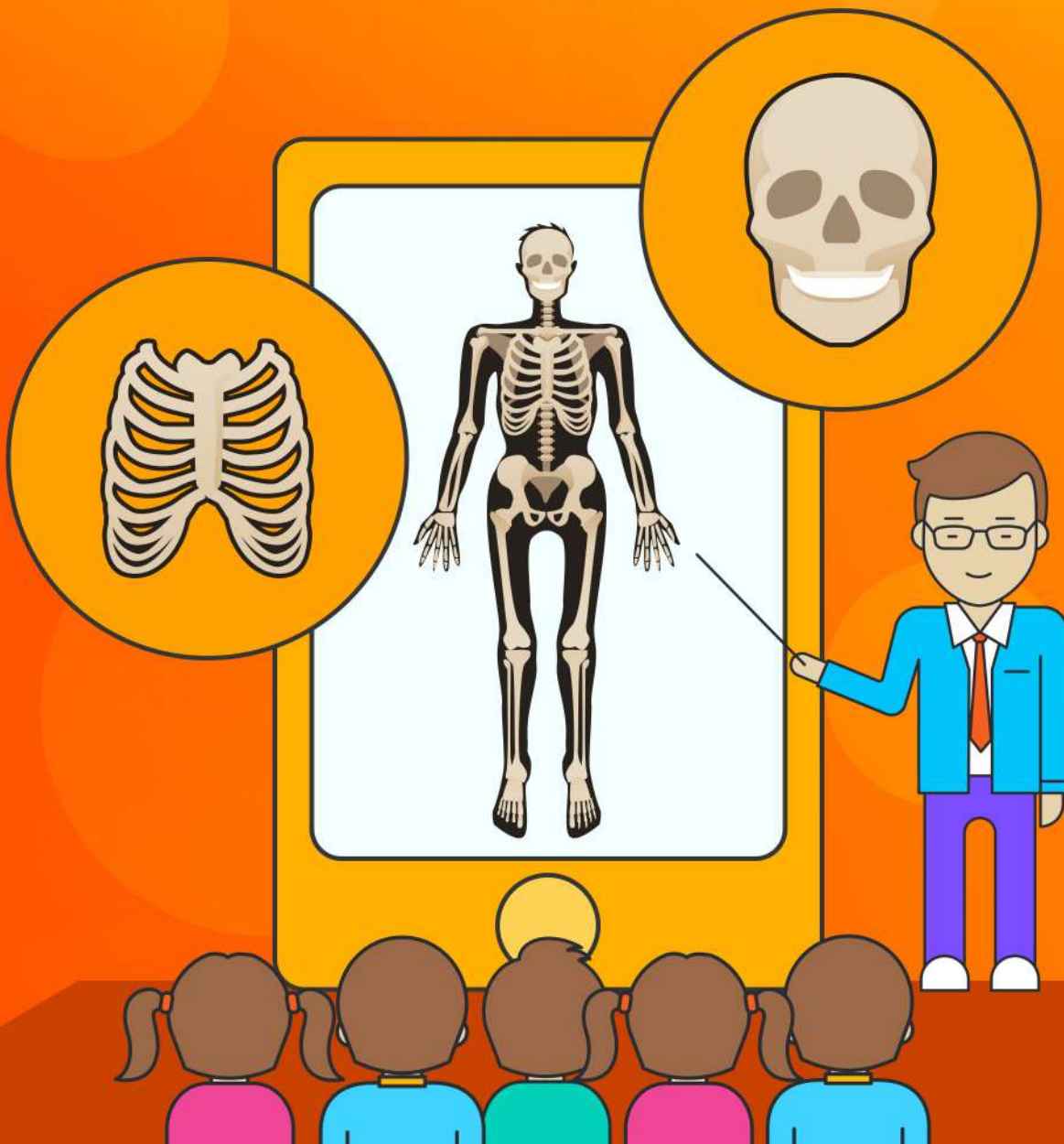




Class-4

Human Body





QUESTIONS

The building blocks of life

(Choose the correct option for the following questions)

Fun Fact #1

There are **206 bones** in an adult human body

Q.1 Which of the following is the strongest bone in the human body?

A. Ribs

B. Cranium

B. Phalanges

D. Femur



Fun Fact #2

Muscles make up to **40%** of your body weight

Q.2 How many muscles do you think are there in the average human's body?

A. 650

B. 206

B. 380

D. 1200



The building blocks of life

(Choose the correct option for the following questions)

Fun Fact #3

Each cell has a nucleus of its own as its control centre

Q.3 Which of the following organisms will have the least number of cells?

A. Ant

B. Cat



B. Bacteria

D. Dog

Fun Fact #4

There are are 200 different types of cells in the human body

Q.4 Which of the following is NOT a type of cell in our body?

A. Brain Cell

B. Red Blood Cell



B. Muscle Cell

D. Duracell



The building blocks of life

(Choose the correct option for the following questions)

Fun Fact #5

The strongest muscle in the human body is the tongue

Q.5 Which of the following helps in making your identity unique?

A. Name

B. Surname

B. City

D. Fingerprint





The organ trail

An organ is a part of the body of an animal that performs a particular work.

Rules :

Find all the organ names hidden in the following puzzle and encircle/highlight them.

D	T	U	K	I	D	N	E	Y	F	B
F	L	J	V	L	N	S	H	B	R	R
G	U	K	B	N	O	S	E	C	E	A
H	N	I	N	R	N	T	Y	S	A	I
J	G	O	L	T	B	O	U	D	R	N
O	S	P	I	Y	V	M	O	F	X	R
P	E	Q	V	U	C	A	P	R	B	F
F	A	E	E	O	Z	C	Q	Q	Z	V
H	P	R	R	Y	Q	H	E	S	A	B





The organ trail


Write down all the organ names you found and their primary function below.

S.No	Organ	Function
1		
2		
3		
4		
5		
6		
7		



Can you sense it?

Based on your day to day experience match the following observations with the organ responsible for it.

	Observation			Organ
A		= Tasty	1	 Nose
B		= Loud	2	 Skin
C		= Beautiful	3	 Tongue
D		= Cold	4	 Ear
E		= Stinky	5	 Eyes

A: _____ B: _____ C: _____ D: _____ E: _____

In and around the ear

Name the various parts of the ear based on the given definition

1. The outer ear is called _____.



2. _____ is a passage comprised of bone and skin leading to the eardrum.

3. _____ is a membrane of the middle ear that vibrates in response to sound waves.



4. _____ transmits the sound vibrations from the eardrum to the incus.

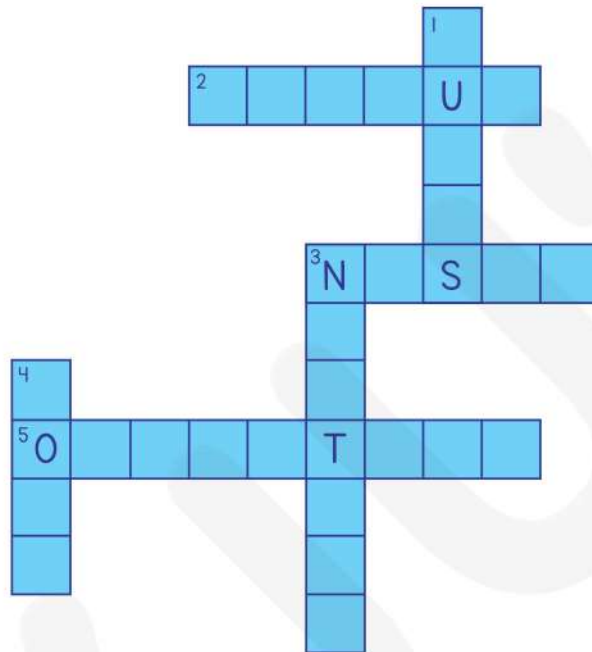
5. The spiral cavity of the inner ear which produces nerve impulses in response to sound vibrations is called _____.





A guide to breathing

Solve the following crossword using the clues.



DOWN:

1. Sticky material that lines your nose.
3. External openings of the nasal cavity
4. The sense organ of smell

ACROSS

2. A bone and cartilage structure in the nose that separates the nasal cavity into the two nostrils.
3. This cavity is lined with little hairs which filters the air you breathe in.
5. This specialised epithelium helps in detecting smell.





A visit to the dentist

Today is a special day for 10 year old Kush. His father is taking him to his first dentist appointment. Kush is very excited to get his teeth checked and ask a lot of questions. Based on your knowledge of the mouth and its functions, try to fill in the blanks for the following conversation.

Dr Chawla: Hey Kush! Are you ready for your dental checkup?

Kush: I am very excited doctor but I hope it does not hurt.

Dr Chawla: No, not at all. Now open your mouth. I will pour a solution into your mouth. You need to gargle for a while and spit it out.



Kush: Doctor, why did the solution taste salty?

Dr Chawla: It is because the solution contains (I)_____ which makes everything taste salty. But do you know how our brain knows that the solution is salty?





A visit to the dentist

Kush: Yes, I think it is because of the (2)_____ buds in our tongue which tells our brain what it tastes like.

Dr Chawla: That's correct Kush! Now open your mouth again so that I can check your teeth. You seem to be missing your front teeth. Do you know what they are called?

Kush: Yes! They are called (3)_____ and they are (4)_____ in number.

Dr Chawla: You seem to have a good knowledge of teeth. Tell me, what kind of teeth are wisdom teeth and when do you get these?

Kush: The wisdom teeth are (5)_____ and they are 4 in number. We usually get them after we are (6) _____ years old.

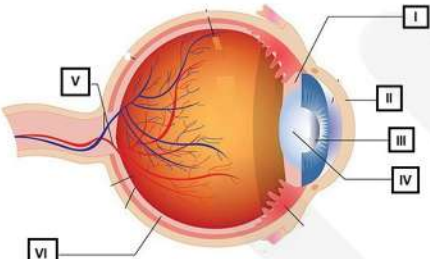
Dr Chawla: You are absolutely correct and all your teeths are also fine. But I would suggest you brush them (7) _____ a day, otherwise your tooth can decay and form a hole called a (8) _____.





Eye to eye

Match the parts of the eye with their function and location in the eye.

S.No	Part of the Eye		S.No	Function
A	Iris		1	Focuses image on retina
B	Retina		2	A hole through which light can enter the eye.
C	Pupil		3	Controls the size of the pupil
D	Lens		4	Inner lining at the back of the eye
E	Cornea		5	Transmits optical impulse to brain
F	Optic Nerve		6	Covering over pupil and iris

Write your solution in the space provided below.

Part of the Eye	Label	Function
A. Iris	I	3) Controls the size of the pupil

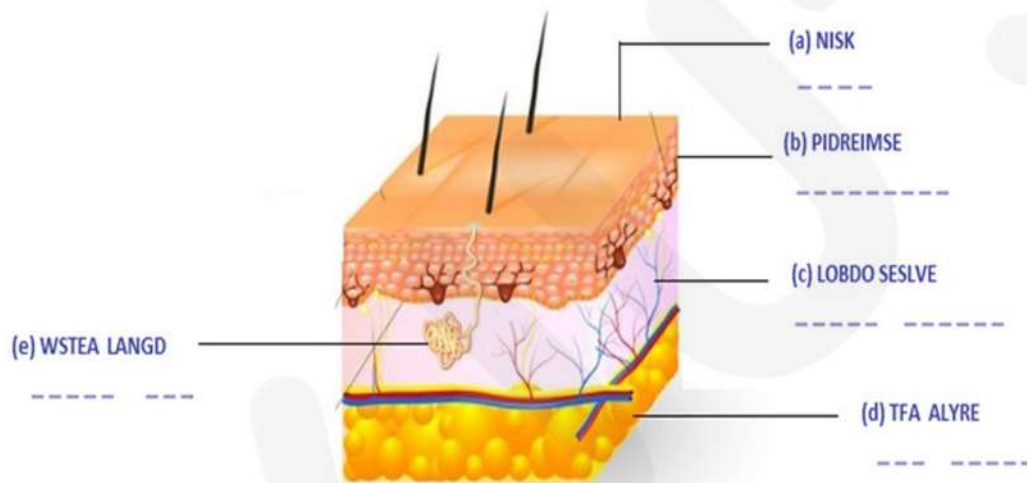




Under the skin

Unscramble the letters to name the different parts of the skin.

Parts of human skin





ANSWERS



The building blocks of life

1. (D) Femur
2. (A) 650
3. (B) Bacteria
4. (D) Duracell
5. (D) Fingerprint

The organ trail

D	T	U	K	I	D	N	E	Y	F	B
F	L	J	V	L	N	S	H	B	R	R
G	U	K	B	N	O	S	E	C	E	A
H	N	I	N	R	N	T	Y	S	A	I
J	G	O	L	T	B	O	U	D	R	N
O	S	P	I	Y	V	M	O	F	X	R
P	E	Q	V	U	C	A	P	R	B	F
F	A	E	E	O	Z	C	Q	Q	Z	V
H	P	R	R	Y	Q	H	E	S	A	B

S.No	Organ	Function
1	LUNGS	Breathing and exchange of Oxygen and Carbon dioxide
2	LIVER	Produce chemicals (bile) to digest food (especially fat)
3	KIDNEY	Filters the blood and removes toxic substances through excretion
4	NOSE	Sense organ of smell
5	STOMACH	Digestion of food
6	EAR	Sense organ of hearing
7	BRAIN	Controls all our body's functions



Can you sense it?

A : 3

B: 4

C : 5

D: 2

E: 1





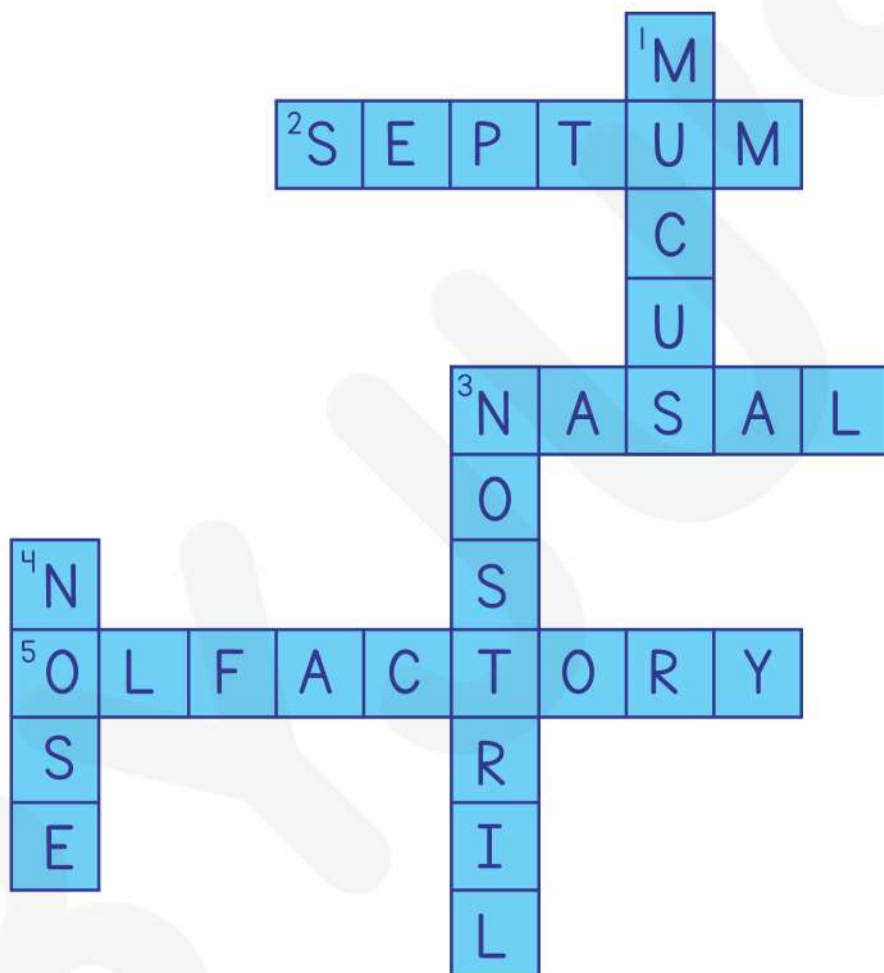
In and around the ear

1. Pinna
 2. Ear Canal
 3. Ear Drum
 4. Hammer
 5. Cochlea
- BYJU'S





A guide to breathing





A visit to the dentist

1. Sodium
2. Taste
3. Incisor
4. 4 or four
5. Molars
6. 18 or eighteen
7. Twice
8. Cavity





Eye to eye

Part of the Eye	Label	Function
A. Iris	I	3) Controls the size of the pupil
B. Retina	VI	4) Inner lining at the back of the eye
C. Pupil	III	2) A hole through which light can enter the eye.
D. Lens	IV	1) Focuses image on retina
E. Cornea	II	6) Covering over pupil and iris
F. Optic Nerve	V	5) Transmits optical impulse to brain





Under the skin

- a) SKIN
- b) EPIDERMIS
- c) BLOOD VESSEL
- d) FAT LAYER
- e) SWEAT GLAND

