MY LIVING WORLD

(Class-IV)



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1 MY BODY

In our previous class, we have studied about the different sense organs of our body tongue, ears, skin, nose and eyes. All these parts can be seen from outside and are known as **external organs**. There are several body parts which are present inside our body and cannot be seen from outside. Such parts are called **internal organs**.

Name some internal organs.

Our body is a very complex system. It works like a machine with the help of various organs present in it. The organs form different systems. One such system is the **digestive system**. The mouth, food pipe, stomach and intestines are the different organs that make up the digestive system.

DIGESTIVE SYSTEM

What happens to the food that we eat? The food contains carbohydrates, proteins, fats and other nutrients. These are complex materials and are broken down into simpler forms in our digestive system. This process is called **digestion**.



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Let us see how our mouth, which is the first part of our digestive system, helps in the process of digestion.

MOUTH

Ask your friend to open his/her mouth and observe it carefully. You will be able to see different types of teeth and a tongue in the mouth.

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Teeth

Teeth are a very important part of our mouth. Teeth help to bite and chew the food. They also give shape to our face and help us to speak clearly.

Two Sets of Teeth

A baby is born with no teeth. When the baby is about six months old, his/her teeth begin to appear. By the time the baby is three years old, he/she has a set of twenty teeth. These are temporary and are called the **milk teeth**.

Between the age of six and twelve years, the milk teeth fall out one by one and new ones grow in their place. These new teeth are called **permanent teeth**. They are thirty two in number.

Types of Teeth

1. Flat teeth: The teeth, in the front of the mouth, are flat and are used for biting and cutting the food. They are known as **incisors**. There are four incisors in the upper jaw and four incisors in the lower jaw.

2. Pointed teeth: On either side of flat teeth is a sharp pointed tooth. They are used for tearing the food. They are known as **canines**. There are four canines in all.



3. Broad and Grooved teeth: The teeth, present at the back of the mouth, are broad and have grooves in them. They are used for chewing and grinding the food. They are known as **premolars** and **molars**. There are eight premolars in all—four in the upper jaw and four in the lower jaw. They are next to the canines. The molars come after the premolars. There are twelve molars in all—six in the upper jaw and six in the lower jaw.

Count the number of teeth in your mouth and those of your parents and grandparents.

2

Our teeth are very important to us. We must take care of them. If we do not take care of our teeth, they can decay and fall.

Ways to Protect Teeth

- 1. Brush your teeth twice a day-in the morning and at night.
- Rinse or wash your mouth after every meal.
- Avoid eating sweets or sugary snacks and taking soft drinks as much as possible.
- Visit a dentist for regular dental check ups.
- Eat fruits, like apple and guava, and vegetables, like radish and carrot. Such foods give exercise to our gums.
- Clean the tongue to remove germs.
- Eat calcium rich food, like eggs, milk and milk products, for strong teeth.

The correct way of brushing teeth is shown through the the following illustrations:



Brush up and down in front



Then brush up and down the back



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Always brush the teeth with a circular movement

Do You Know

- If sugar and bacteria are left on the teeth for long, they can cause tooth decay.
- The white outer covering of teeth is called enamel. This is the hardest substance in the human body.

Tongue

Tongue is a soft, movable part inside our mouth. It is used for tasting, licking and speaking. It also pushes the food into the food pipe at the time of swallowing.

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Digestion of food begins when we put the food in our mouth. Teeth help in breaking the food into smaller pieces and chewing it. Here the saliva gets mixed with the food and makes it soft. Saliva converts insoluble starch into soluble sugar. You must have noticed that when you chew *chappati* for a longer time, it starts tasting a little sweet. This is due to the action of saliva on our food. It is very important to chew the food properly for proper digestion of food.

STOMACH

From the mouth, the food goes into the food pipe and enters the stomach. The stomach is a muscular bag-like organ in which food can be stored for a few hours. During this time the food mixes with digestive juices secreted by the walls of the stomach. The food is partially digested here.

SMALL INTESTINE

From the stomach the food is passed into a long and coiled structure called the small intestine. The small intestine, the liver and the pancreas produce some more

digestive juices. Liver and pancreas pour their juices into the small intestine. These juices then get mixed with the food and completely digest it in the small intestine.



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The walls of the small intestine absorb the digested food and pass it to blood. Blood carries the digested food to all parts of the body.

LARGE INTESTINE

The undigested food passes into the large intestine. The walls of the large intestine absorb water from it and then pass it to blood. The undigested semi-solid waste is collected in the rectum and is eliminated through the anus.

While eating food, it is very essential to see what should be eaten and how it should be eaten.

One should:

- wash hands before eating.
- 2. chew food properly before swallowing.
- not speak while chewing food.
- eat green vegetables and fruits everyday.
- 5. eat a balanced diet.
- take food at fixed intervals.
- drink about 8-10 glasses of water everyday.

Do You Know

The length of the small intestine is approximately 7 metres whereas the large intestine is only 1.5 metres long.



Do You Know

Cooking makes food soft, tasty and digestible. It kills germs that may be present in the food.

IMPORTANCE OF EATING FRESH, CLEAN FOOD

We eat raw as well as cooked food. Let us see how cooked as well as uncooked food can become the source of many infections.

> Unwashed fruits and vegetables can carry germs of diseases which can cause diarrhea, vomiting and other stomach ailments.



- Unwashed fruits and vegetables can also carry eggs of worms. These eggs are too small to be seen by the naked eyes. When these eggs reach the stomach of a human being, they hatch there and produce worms. These worms live in stomach and intestines and consume the food that is meant for the human body. People, having worms, generally look weak, pale and unhealthy.
- Peeled and cut fruits and vegetables, which are exposed to flies and dust, can transfer germs into the body and thus, cause many diseases such as jaundice, cholera, etc.



Cooked food when left uncovered or unrefrigerated for long, can also cause food poisoning. This happens because germs then get plenty of time to grow and multiply in the food. The germs produce harmful substances, which can cause vomiting and diarrhea.

Do You Know

It is very important that a person, suffering from diarrhea and vomiting, should be given plenty of (cooled) boiled water containing a small amount of sugar and salt.

Keywords

- canines
- diarrhea
- digestion
- digestive juices
- incisors
- internal organs
- molars & premolars

saliva

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the four pointed teeth in our mouth.

a problem (an ailment) in which body tends to lose too much of water through stools.

the process of breaking down of food into simpler forms.

juices which help in digestion of food.

the flat teeth in the front of the mouth.

organs present inside our body.

the broad and grooved teeth present at the back of the mouth.

a liquid secreted in our mouth by the salivary glands.

-	Something to Know			
A.	Fill in the blanks.			
	 The body organs that cannot be organs. 			
	2. Flat teeth are in the	of the mouth.		
	3. Tongue is used for	and		
	4. Saliva is secreted by	·		
	5. Flies can transfer	to uncovered food.		
В.	Match the following:			
	1. milk teeth	(a) absorption of water		
	2. large intestine	(b) absorption of digested food		
	3. permanent teeth	(c) undigested waste is collected		
	4. rectum	(d) thirty two		
	5. small intestine	(e) twenty		
1	Tick (🖌) the correct option.			
	1. The teeth, used to tear food	into pieces, are known as-		
	(a) incisors (b) canii	nes (c) molars (d) premolars		
	2. Ria's mother is thirty two year	ars old. She is likely to have—		
	(a) 20 permanent teeth	(b) 20 temporary teeth		
	(c) 32 permanent teeth	(d) 32 temporary teeth		
	3. The organ, which secretes dig	gestive juices in the small intestine, is the-		
	(a) liver	(b) salivary glands		
	(c) stomach	(d) food pipe		
	4. The food gets completely dig	ested in the-		
	(a) mouth	(b) stomach		
	(c) small intestine	(d) large intestine		

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- 5. An eight year old child is likely to have-
 - (a) only temporary teeth (b) only permanent teeth
 - (c) both temporary and permanent teeth
 - (d) no teeth at all

D. Answer the following questions in brief.

- 1. Name the organ through which food enters the stomach.
- 2. How many sets of teeth are formed during one's life time? Name them.
- 3. Write any one difference between milk teeth and permanent teeth.
- 4. What do you mean by the term 'digestion'?
- 5. What happens to the food when it enters the stomach?

E. Answer the following questions.

- List five good habits that should be taken care of at the time of eating food.
- 2. Name the different types of teeth present in the mouth. Also mention their functions.
- 3. Why is it important to chew the food properly?
- 4. Why is washing of fruits and vegetables important for us?
- 5. Sheena's mother often tells her not to eat too many sweets and chocolates. Why do you think she says so?
- 6. Complete the given foodpath:





It was lunch time in the school. Rahul and his friends gathered to have lunch together. All the friends started eating their lunch. Rahul did not find his lunch box in his bag. He had forgotten it at home. His friend Sanyam noticed this. He immediately offered to share his lunch with him. Rahul, however, moved out of the class. He bought some food from the vendor outside the school gate and ate it.



- 1. What would you do if you were in Rahul's place?
- 2. Sanyam tried to share his food with Rahul? In what situations do you share/ help your friends?
- 3. Do you think that eating food from roadside vendors is a healthy option?

Something to Do

1. Denture Making

Take some playing dough (clay) and a few peeled peanuts. Roll the clay into the shape of jaw (\odot) and place the peanuts the way your teeth are arranged on the jaws.

Colour the flat teeth, pointed teeth and broad and grooved teeth in different colours. Do not forget to give proper shape to the peanuts.

- 2. Visit the following websites for more information on the digestive system:
 - (a) www.makemeagenius.org
 - (b) www.scienceforkids.org