

COLEGIO AGUSTINIANO NORTE CIENCIAS NATURALES Y EDUCACIÓN AMBIENTAL ACTIVIDAD EVALUATIVA - SEGUNDO PERIODO GRADO QUINTO

THE DIGESTIVE SYSTEM, ORGANS AND THEIR FUNCTIONS

	1.	Watch the vide	o "How your	digestive	system	works?
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2. and write the words in the order you hear them. Then, complete the reading, taking into account the vocabulary – The Digestive System.

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	Across the whole planet, humans eat on average between one and 2.7 kilograms of food a day.				
	That's over 365 kilograms a year per person, and more than 28,800 kilograms over the course of a				
	lifetime. And every last scrap makes its way through the digestive system . Comprised of ten organs				
	covering nine meters, and containing over 20 specialized cell types, this is one of the most diverse				
	and complicated systems in the human body.				
	Its parts continuously work in unison to fulfill a singular task: transforming the raw materials of your				
	food into the and that keep you alive. Spanning the entire length of your				
	torso, the digestive system has four main components.				
	First, there's the, a twisting channel that transports your food and has				
	an internal surface area of between 30 and 40 square meters, enough to cover half a badminton				
	court.				
	Second, there's the,, and, a trio of organs that break down				
	food using an array of special juices.				
	Third, the body's enzymes, hormones, nerves, and blood all work together to break down food,				
	modulate the digestive process, and deliver its final products.				
	Finally, there's the, a large stretch of tissue that supports and positions all your				
	digestive organs in the abdomen, enabling them to do their jobs.				
	The digestive process begins before food even hits your tongue. Anticipating a tasty morsel, glands in				
	your start to pump out saliva. We produce about 1.5 liters of this liquid each day. Once				
	inside your mouth, chewing combines with the sloshing saliva to turn food into a moist lump called the				

		tarch. Then, your food finds itself at the rim of a 2
centimeter-long tube calle	d the	, down which it must plunge to reach the
Nerves in the surrounding	esophageal tissue ser	nse the bolus's presence and trigger
a series of defined muscu	lar contractions. That p	propels the food into the stomach, where it's left a
mercy of the muscular sto	mach walls, which bou	and the bolus, breaking it into chunks. Hormones,
secreted by cells in the lin	ing, trigger the release	of acids and enzyme-rich juices from the stomac
wall that start to dissolve	the food and break dov	vn its proteins. These hormones also alert the
pancreas, liver, and gallbl	adder to produce diges	stive juices and transfer bile, a yellowish-green lig
that digests fat, in prepara	ation for the next stage	After three hours inside the stomach, the once
shapely bolus is now a fro	othy liquid called	, and it's ready to move into the
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The liver sends bile to the	gallbladder, which see	cretes it into the first portion of the small intestine
called the duodenum. Her	e, it dissolves the fats	floating in the slurry of chyme so they can be eas
digested by the pancreation	c and intestinal juices t	hat have leached onto the scene.
These enzyme-rich juices	break the fat molecule	es down into fatty acids and glycerol for easier
absorption into the body.	The enzymes also carr	y out the final desconstruction of proteins into am
acids and carbohydrates	nto glucose. This happ	ens in the small intestine's lower regions, the
jejunum and ileum, which	are coated in millions	of tiny projections called villi.
These create a huge surfa	ace area to maximize r	nolecule absorption and transference into the blo
stream. The blood takes t	hem on the final leg of	their journey to feed the body's organs and tissue
But it's not over quite yet.	Leftover fiber, water, a	and dead cells sloughed off during digestion make
into the	, also known as the	e The body drains out most of the
remaining fluid through th	e intestinal wall. What's	s left is a soft mass called stool. The colon squee
this byproduct into a pouc	h called the	, where nerves sense it expanding and tell the
body when it's time to exp	el the waste. The bypr	oducts of digestion exit through the an
the food's long journey, ty	pically lasting between	30 and 40 hours, is finally complete.
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