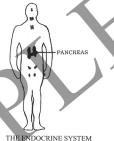
# 6 GLAND - x.s. (190x)

In the last slide you learned something about the nervous system and the way it sends electrical messages to parts of your body, directing them what to do. Your body has another system that sends chemical messages to different parts of your body. These chemicals help digestion, make your heart beat faster when you are excited, make you grow, and then stop you from growing.

The chemicals that do all these things and more are called hormones (HOR-mohnz). They are produced by parts of your body called glands (GLANZ).

This slide shows part of a gland called the pancreas (PAN-kree-us) that sends chemicals into the digestive system. The part of the gland marked with the arrow is of special interest. It produces a hormone that controls the use of sugar in your body. If this gland doesn't produce enough of its hormone, called insulin (IN-su-lin), a serious disease called diabetes (di-a-BEE-tes) can result

Glands and hormones are part of your body's endocrine (EN-do-krin) system.



### **7** SKIN - x.s. (80x)

Your skin is the largest organ in your body. It is part of several different systems. Your skin protects you from germs and injury. It stores food in its fatty layers. It helps keep your inside parts at the right temperature. It contains parts of the nervous system which tell your brain what is happening outside of your body.

This slide shows many sweat glands. One of these glands is labeled (S). Can you find others? (D) is a straight section of one gland. At (P) you can see an opening in the skin through which sweat leaves your body. Sweat on your skin keeps you cool. Can you also see that your skin has more than one laver?

# WHITE BLOOD CELL - e.m. (25,000x)

This slide introduces you to part of another body system called the immune (im-MYOON) system. Its job is to keep germs out of your body and, if germs do get in, find them and kill them before

they can harm you. The part of the system you see here is a white blood cell (W). It is gobbling up a bacteria (B) that has gotten into the body.

## YOUR BODY

#### INTRODUCTION

Your body is a wonderful machine. Whether you are eating, playing, or sleeping, your body is working. Your heart pumps, your lungs breathe, your muscles stretch. And all this happens with you hardly noticing it. How does your body do all of these things? This set was written to help you begin to learn the answers to this question.

of your body look like under a microscope. You

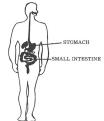
will also learn about what these parts do. The parts you will study will introduce you to this interesting subject. You can then learn more about each of the parts by studying other sets in this series and books your teacher will tell you about.

The magnification given, for example, Slide 1 (50x), means that the microscope was set at that As you study this set you will see what some parts power when the photograph was taken.

## SMALL INTESTINE (50x)

Your body needs fuel to keep it running smoothly. the food. If you study Microslide Set 116, you will It gets its fuel from the air you breathe and the food learn much more about the parts of the digestive you eat. But food can't be used by your body just system and how they work. the way you eat it. It first must be changed into simple chemicals that can travel through your body and reach every one of your body's cells. The group of parts of your body that help bring the food into your body, break it down into usable form and eliminate the unused waste, is called the digestive system.

This slide shows a tiny piece of the part of the digestive system called the intestine (in-TES-tin). It is very important. Here is where food is absorbed and enters your bloodstream. Once the food is in your bloodstream, it can then travel to feed the rest of your body. Can you see the small, fingerlike parts in the slide labeled (V)? They are called villi (VILL-i). They act like sponges, soaking up



THE DIGESTIVE SYSTEM

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