

1. Fill in the following chart on the processes that occur in the sections or organs of the human digestive system, and list the glands and digestive fluids associated with these processes.

ORGAN OR SECTION	PROCESSES OCCURRING	ASSOCIATED GLANDS, ORGANS, AND DIGESTIVE FLUIDS
Oral cavity	chewing, bolus created	salivary glands = salivary amylase
Pharynx	swallowing	tongue (helps swallow)
Esophagus	peristalsis = muscular contraction	cardiac sphincter
Stomach	Food breakdown w/ acid + enzymes	HCl + pepsinogen = pepsin gastric glands
Small intestine	absorption of nutrients	pancreas; liver; gallbladder
Large intestine	reabsorption of H <sub>2</sub> O get more vitamins out of food	rectum → anus

2. Fill in the following table on four major regulatory hormones that control the release of digestive secretions.

STIMULUS THAT CAUSES RELEASE	HORMONE	EFFECTS OF THE HORMONE
stretching of stomach wall	Gastrin	gastric glands to release HCl + pepsinogen
activity of chyme in duodenum	Secretin	pancreas + gall bladder to release enzyme + bile
partially digested fat/oil/protein	Cholecystokinin (CCK)	pancreas + gall bladder to release enzymes
fats in stomach or small intestine	*Enterogastrone	signals stomach to slow down its movement + empty more slowly when fat is present.

↳ HARD CHALLENGE present. →