

DUODENUM - FIRST PART OF SMALL INTESTINE THAT CONNECTS TO STOMACH - RECEIVES PARTIALLY DIGESTED FOOD (CHYME)

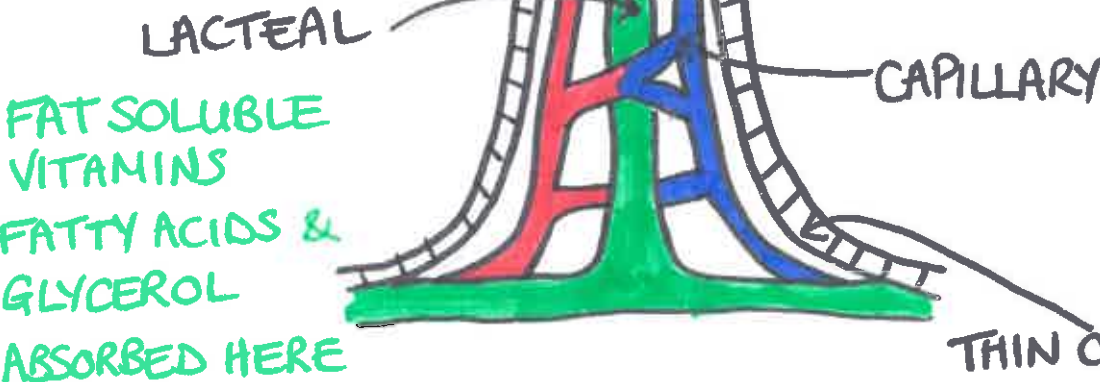
INTESTINAL GLANDS LINE S.I. → SECRETES INTESTINAL JUICES

INTESTINAL JUICES COMPLETE DIGESTION OF:
CARBOHYDRATES
LIPIDS
PROTEINS

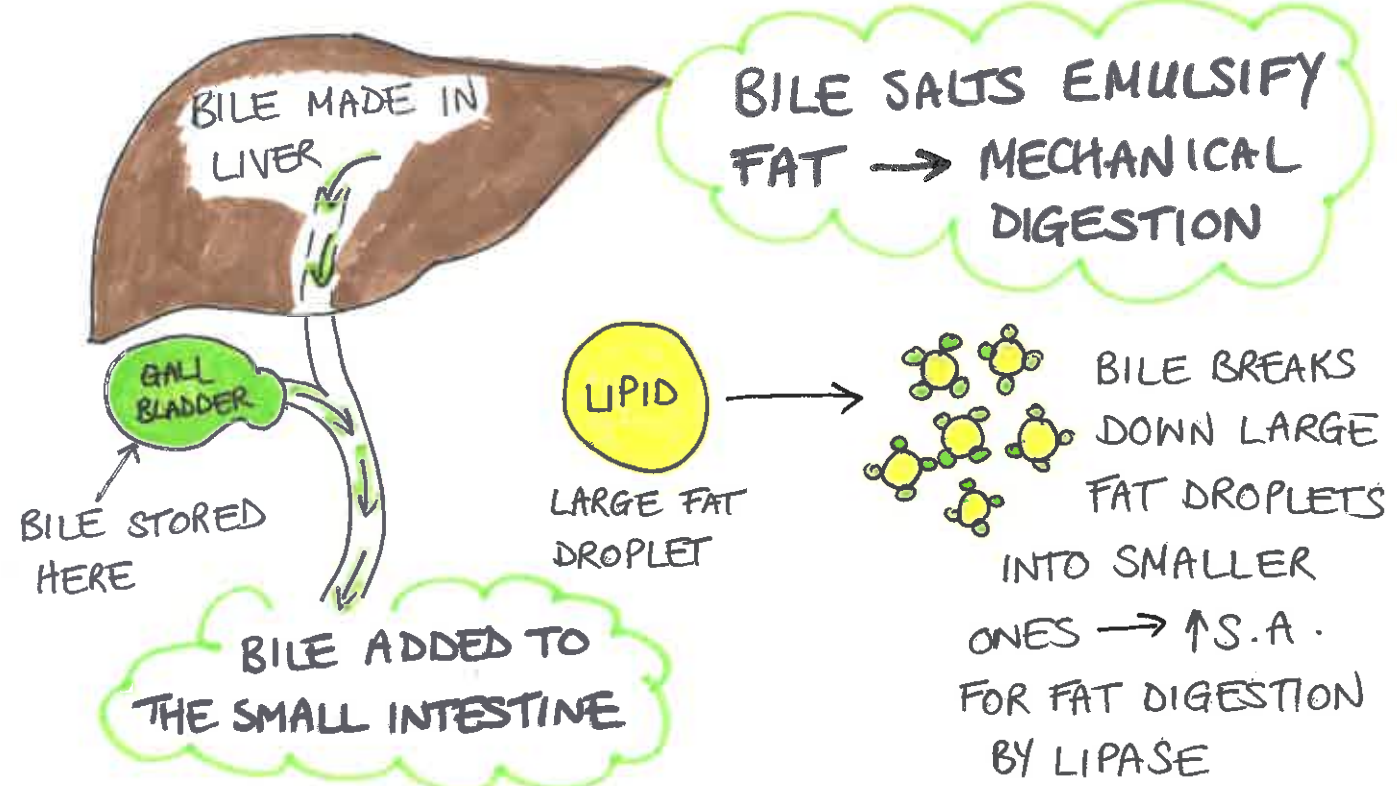
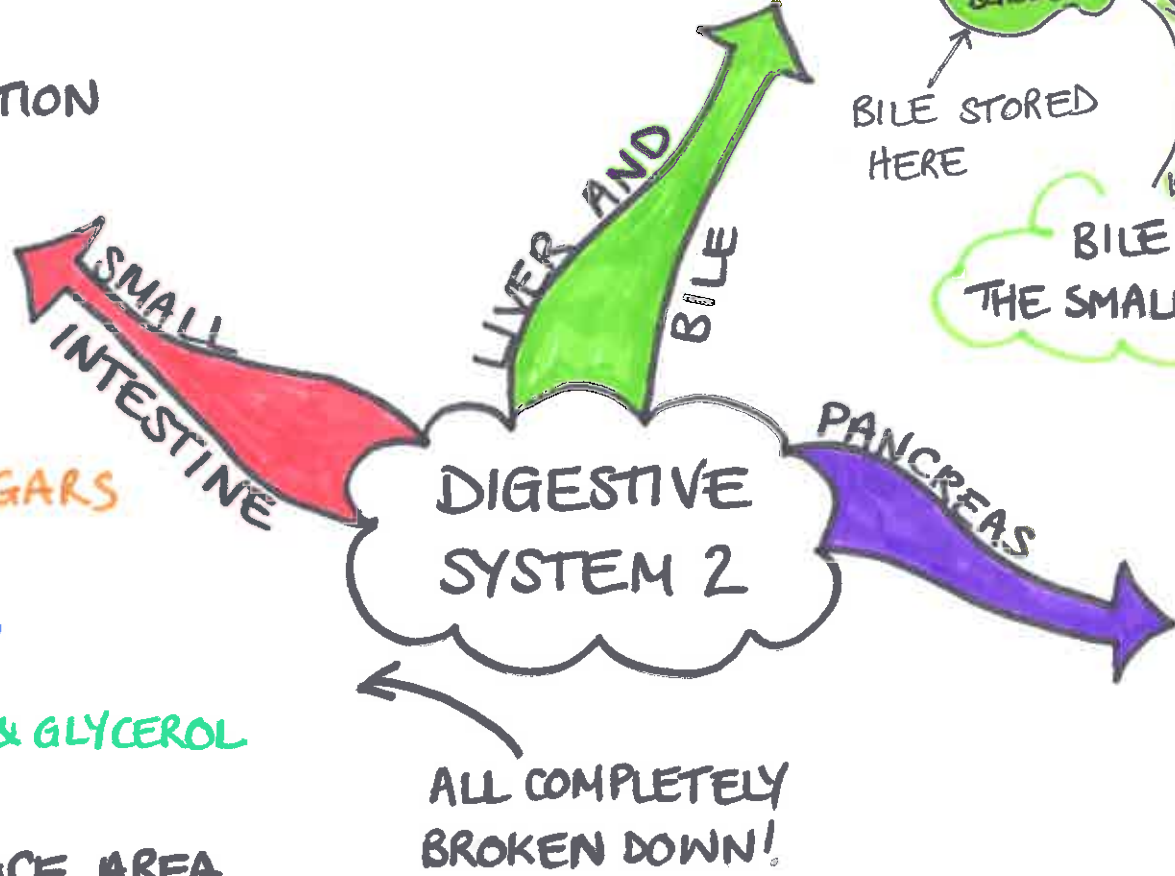
DISACCHARIDES $\xrightarrow{\text{AMYLASES}}$ SIMPLE SUGARS
PEPTIDES $\xrightarrow{\text{PROTEASE}}$ AMINO ACIDS
FATS (LIPIDS) $\xrightarrow{\text{LIPASES}}$ FATTY ACIDS & GLYCEROL

ADAPTATIONS TO INCREASE SURFACE AREA

- 6M LONG
- FOLDED MUCOSA
- VILLI
- MICROVILLI (ON TOP OF VILLI)



- SIMPLE SUGARS
 - AMINO ACIDS
 - WATER
 - WATER SOLUBLE VITAMINS
- ABSORBED HERE



PANCREATIC JUICE
• CLEAR ALKALINE FLUID ENTERS DUODENUM TO NEUTRALISE STOMACH CONTENTS

PANCREATIC ENZYMES

STARCH	$\xrightarrow{\text{PANCREATIC AMYLASE}}$	DISACCHARIDES	] NOT FULLY BROKEN DOWN! }	CHEMICAL DIGESTION
PROTEINS	$\xrightarrow{\text{PANCREATIC PROTEASE}}$	PEPTIDES		
FATS	$\xrightarrow{\text{PANCREATIC LIPASE}}$	FATTY ACIDS & GLYCEROL		

PANCREAS, LIVER & GALL BLADDER ARE ACCESSORY ORGANS