

ANATOMY OF MAMMALS UNIT REVIEW

- Know the order for increasingly complex systems in the body: (Cell → Tissue → Organ → Organ System) and the definition for each
- Be able to identify the 8 major systems (Digestive, Circulatory, Respiratory, Reproductive, Excretory, Locomotion, Endocrine, Nervous) if you saw a diagram of that system on a human body) and be able to state the major function(s) of each system

THE DIGESTIVE SYSTEM

- Know the four phases of processing food and what each step means
- Know the role of the teeth, salivary glands, tongue, bolus, sphincter, stomach, small intestine and large intestine in digestion
- Know where absorption takes place and the approximate length of the small intestine, the duodenum and the large intestine
- What is bile and what does it do? Where does it come from?
- Be able to identify all 12 organs on a diagram of the digestive system and the role of each in digestion
- Know the products of digestion and what villi are

THE RESPIRATORY SYSTEM

- Be able to identify all the parts of the lungs on a diagram
- What is the purpose of the respiratory system?
- Be able to describe the function/purpose of each of the following: nostrils, pharynx, trachea, epiglottis, two bronchi, bronchioles, alveoli, larynx
- Why do we breathe?
- What happens during the two main stages of breathing? (Inspiration vs Expiration)
- What happens to blood as the capillaries wrap around the alveoli?

THE CIRCULATORY SYSTEM

- Be able to identify the parts of the heart on a diagram
- Be able to describe the journey that blood takes and the parts of the heart that it goes through as it enters the heart, goes to the lungs, returns to the heart and then goes out to the body. When is it oxygenated/deoxygenated?
- How does the heart beat? What do SA and AV stand for?
- What is the difference between arteries and veins? Know the order of blood vessels that blood goes through as it journeys from the heart to the cells and back to the heart as it goes from oxygenated to deoxygenated (Arteries → Arterioles → Capillaries → Venules → Veins)
- What is blood pressure?
- Know the different components of Blood