## **Animals Including Humans** Year 6 **Key Vocabulary** Mammals have hearts with to body from chambers. Notice four A system which includes the heart, circulatory system body the blood that how veins, arteries and blood transporting to has come from the body is substances around the body. lungs deoxygenated, the and from heart An organ which constantly pumps blood blood that has come from lungs around the circulatory system. the lungs is oxygenated The tube-like structures that carry blood blood vessels again. The blood isn't from body through the tissues and organs. Veins, actually red and blue: arteries and capillaries are the three types we just show it like oxygenated / deoxygenated of blood vessels. that on a diagram. blood blood oxygenated blood Oxygenated blood has more oxygen. Capillaries are the smallest **blood vessels** in the body It is pumped from the **heart** to the rest and it is here that the exchange of water, of the body. nutrients, oxygen and carbon dioxide deoxygenated blood Deoxygenated blood is blood where most takes place. of the oxygen has already been transferred arteries veins to the rest of the body. Arteries carru Veins capillaries carry oxygenated deoxygenated The **heart** pumps blood to away blood blood toward the lungs to get oxygen. from the the **heart**. heart. It then pumps this oxygenated blood around the body. If you linked up all of the body's blood vessels, including arteries, capillaries, and veins, they would measure over 60,000 miles. **Key Vocabulary** drug A substance containing natural or man-made chemicals that has an effect on your body when it enters your system. Blood transports: alcohol A **drug** produced from grains, fruits or vegetables gases (mostly oxygen and when they are put through a process called carbon dioxide); fermentation. The liquid part of blood nutrients (including water); Substances that animals need to nutrients stay alive contains water and protein. and healthy. This is called plasma. waste products. Platelets help you Plasma Regular exercise: stop bleeding when is liquid. strengthens muscles including you get hurt. The other the heart muscle; parts of Red blood cells White blood cells improves circulation; your blood infection carry oxygen fight 2 are solid. through your body. when you're sick. increases the amount of oxygen around the body; Drugs, alcohol and smoking A healthy diet involves eating releases brain chemicals which the right types of **nutrients** in have negative effects on help you feel calm and relaxed; the body. the right amounts. helps you sleep more easily; strengthens bones. It can even help to stop us from getting ill.