SB8 Exchange and Transport in Animals

SB8a Efficient transport and exchange

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5th	Recall the names of substances that need to be transported into and out of the body.	☐	☐	☐
5th	Describe the functions of the substances that are transported into the body.	☐	☐	☐
6th	Describe the adaptations of the lungs for gas exchange.	☐	☐	☐
8th	Calculate surface area : volume ratios.	☐	☐	☐
9th	Explain the importance of surface area : volume ratios in transport systems.	☐	☐	☐

SB8b Factors affecting diffusion

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5th	Describe what is meant by concentration and use appropriate units.	☐	☐	☐
7th	Describe how surface area affects the rate of diffusion.	☐	☐	☐
7th	Describe how concentration gradient affects the rate of diffusion.	☐	☐	☐
7th	Describe how distance affects the rate of diffusion.	☐	☐	☐
8th	Calculate rates of diffusion using Fick's law.	☐	☐	☐

SB8c The circulatory system

Step	Learning outcome	Had a look	Nearly there	Nailed it!
4th	Recall the components and function of the circulatory system.	☐	☐	☐
5th	Recall the functions of the different types of blood vessels.	☐	☐	☐
6th	Describe the functions of the different types of blood cells (erythrocytes, phagocytes, lymphocytes).	☐	☐	☐
6th	Describe the functions of blood platelets and plasma.	☐	☐	☐
7th	Describe how the different blood vessels are adapted to their functions.	☐	☐	☐

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SB8d The heart

Step	Learning outcome	Had a look	Nearly there	Nailed it!
	Recall the parts of the heart.	☐	☐	☐
	Describe the flow of blood through the heart.	☐	☐	☐
	Explain how the heart is adapted for its function (valves, differing ventricle muscle thicknesses).	☐	☐	☐
	Recall and use the equation that relates cardiac output, stroke volume and heart rate.	☐	☐	☐

SB8e Cellular respiration

Step	Learning outcome	Had a look	Nearly there	Nailed it!
	Explain why organisms need to respire.	☐	☐	☐
	Recall the word equation for aerobic respiration.	☐	☐	☐
	Recall the word equation for anaerobic respiration in humans.	☐	☐	☐
	Explain why respiration is an exothermic process.	☐	☐	☐
	Compare aerobic and anaerobic respiration.	☐	☐	☐

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