7A Cells Tissues & Organs	Knowledge, Skills and Understanding
Higher	Identify ways in which an organism shows each life process Compare life processes in a range of plants and animals. Identify similarities between the functions of different organs (including common life processes) Estimate sizes under a microscope Identify similarities between the functions of different organs (including common life processes). Justify the classification of an organism as an animal based on cell structure Justify the classification of an organism as a plant based on cell structure Suggest reasons for differences between animal cells (in terms of their function) Suggest reasons for differences between plant cells (in terms of their function) Give examples of when organ transplants are needed Explain why some people need dialysis Compare benefits and drawbacks of transplants compared with other forms of treatment Compare the function of the kidney with a dialysis machine.
Intermediate	Describe the life processes Use life processes to justify whether something is an organism or is non-living. Describe the functions of a large range of human, animal and plant organs Describe what happens in photosynthesis. Describe the functions of the parts of a light microscope Describe how to use a light microscope to examine a slide Describe how to prepare a microscope slide. Cells, tissues, organs and systems 26 © Pearson 7 A c 9 Calculate total microscope magnification using a formula Describe the functions of different tissues in an organ. Describe what the nucleus, cell membrane and cytoplasm do Describe what the cell wall, permanent vacuole and chloroplasts do Identify the contents of plant cells in unfamiliar plants Identify mitochondria Describe the function of mitochondria Identify organs working together as a system Identify and recall the main parts of the urinary system Correctly use the word: urine State the function of the urinary system Identify the main parts of the nervous system Describe what the parts of the nervous system are made of State the function of the nervous system.
Foundation	Identify things as being alive or not Recall the life processes: movement, reproduction, sensitivity, growth, respiration, excretion, nutrition State the meaning of and correctly use the word: organism. Locate and identify some human and plant organs Correctly use the word: organ Describe the functions of major human and plant organs. State the use of a microscope Identify the basic parts of a light microscope Identify the basic parts of a prepared light microscope slide Identify and recall named tissues in human and plant organs Correctly use the word: tissue Identify the cell nucleus, cell membrane and cytoplasm on a diagram of a cell List the main features commonly found in animal cells Identify a cell as an animal cell Identify the cell wall, permanent vacuole, chloroplasts on a diagram List the main features commonly found in plant cells Identify a cell as a plant cell. Correctly use the term: organ system Describe how organs work together as organ systemssport system