

Living processes

OCR recognises that the teaching of this qualification above will vary greatly from school to school and from teacher to teacher. With that in mind this lesson plan is offered as a possible approach but will be subject to modifications by the individual teacher.

Lesson length is assumed to be one hour.

Learning Objectives for the Lesson

Objective 1	Define the term specialised cell	
Objective 2	Recall that tissues are made of groups of specialist cells	
Objective 3	Recall that organs are made of groups of tissues	

Recap of Previous Experience and Prior Knowledge

Key stage 3 knowledge and content from B4 on cell structure of plants and animal cells.

Content

Time	Content
10 minutes	Recap on the knowledge from B4 on cell structure in plants and animals. Show a series of pictures of cells to the class and discuss how they are specialised e.g. Red blood cells, Muscle cells, Palisade cells, Neurons. There are good pictures available at Website BBC Bitesize Specialist Cells .
10 minutes	Define and describe how groups of similar specialist cells form tissues, and how groups of tissues form organs (e.g. photoreceptors, retina, eye or palisade cell, palisade layer, leaf).
30 minutes	Opportunity for Practical Work: Set up a series of microscopes around the room with pre-prepared slides (or alternatively good quality pictures) e.g. Cross section of a leaf, cross section of a stem, muscle tissue. Have students sketch the organ and then highlight similar looking cells (tissues) and specialist cells.

Consolidation

Time	Content
10 minutes	Get feedback from students on the types of cells they have seen and how they are specialised.

B5 Ocr Gateway Module Test

Jacqui Punter



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