

Lesson Name		Lesson Number/Sequence		
Year: 7 Subject: Biology	Learning Intentions: Students will be able to: <ul style="list-style-type: none"> Describe what a cell is Explain and demonstrate how to use a microscope to observe cells 	Target Students SEN: PP: G&T:		
Big Picture: This topic looks at how to use a microscope and learn about the function and types. of animal and plant cells	Success Criteria: <ul style="list-style-type: none"> 	SMSC Link:		
Task	Description	AfL, Differentiation, questioning	Link to new GCSE curriculum	Literacy/Numeracy Link
Prepare (5 minutes) Starter	Mystery Image: Students to guess what the images are. These are magnified images.	Working in pairs. Bring in UA questioning about magnifications.		
Propose (5 mins) Links and connections to big picture. Introduce learning intentions and success criteria.	Introduce topic and how learning intentions and success criteria are used.			
Present (10 mins) teach and model	Show students the microscope. Nominate and bounce questions about the function of a microscope. Discuss how the magnification works	AfL: nominate and bounce		
Practice (15 mins) tasks and feedback.	Students need to label a diagram of a microscope. Challenge. Students to work out the magnification of each objective lense.	Peer assess to check diagrams are correctly labelled		
Mini Plenary (5 mins)	Students to check each other's work and correct if incorrect.	Nominate students and differentiate questions	Variables for practical work	
Present - Teach and model (10 mins)	Using the microscope: Pond water. Demo how to use dimple slides to observe what is in the pond water.			
Practice (15 Mins)	Students to carry out practical and record results			
Plenary (10 mins) Review and consolidation, links to next lesson	Students to share what they have found. Link to next lesson where we will start looking at even smaller scales – at individual cells. Do they think all cells look the same? If not why not?	Group discussion		