

Science

Weak topic	Doddle Resource	How it helps
Biology: Sampling techniques in ecology	Practical quiz: AQA Field investigations	This quiz tests sampling techniques in the context of the AQA required practical on using sampling techniques to investigate the effect of a factor on the distribution of a species. The quiz assesses students on choosing the most suitable sampling technique and on how to carry out the sampling method.
Biology: Respiration	Mini quiz: AQA Cellular respiration	This quiz covers the purpose of respiration, the equations for aerobic and anaerobic respiration, and the differences between aerobic and anaerobic respiration. <i>There are also OCR Gateway, OCR 21st Century and Edexcel versions of this quiz.</i>
Chemistry: Organic chemistry	Mini quiz: AQA Crude oil	This quiz introduces students to organic chemistry and covers crude oil, alkanes and fractional distillation. <i>There are also OCR Gateway, OCR 21st Century and Edexcel versions of this quiz.</i>
Chemistry: Qualitative chemistry	Interactive: Identifying metals from their hydroxide precipitates	This two-part interactive consists of an animation showing how a coloured precipitate is formed when sodium hydroxide is added to a solution, and a drag and drop activity where students use the colours of the precipitates to identify which metal ions were present in the original solutions.
Physics: IV graphs	Practical quiz: AQA I-V Characteristics	This quiz tests I-V graphs in the context of the AQA required practical on investigating I-V characteristics. The quiz covers plotting and interpreting I-V graphs, and identifying a component from the shape of its I-V graph. <i>There is also an OCR version of this quiz – OCR Circuits</i>
Physics: Hooke's law	Mini quiz: AQA Elasticity	This quiz covers force-extension graphs, calculating force, spring constant and extension from the equation $F = ke$, and determining spring constant by finding the gradient of a force-extension graph. <i>There are also OCR Gateway, OCR 21st Century and Edexcel versions of this quiz.</i>
Significant figures	Mini quiz: Significant figures (Click here to try it free)	This is consistently mentioned as something students struggle with. This quiz introduces students to the concept of significant figures before applying the use of significant figures to scientific contexts. It covers which digits count as significant figures, and rounding to a given number of significant figures.