

Scheme of work for Chapter 1, *Statistical analysis*

Syllabus section	Content	Time required	Outline of lessons	Coursebook resources	Worksheets	Teacher's resources / Teaching ideas
1.1	Statistical analysis	2 lessons and frequent reinforcement during practical work	<ul style="list-style-type: none"> Explain the use of mean and standard deviation; calculate these from a set of values; state and outline the use of error bars in showing the range or standard deviation of data Deduce the significance of the difference between two sets of data using values from the <i>t</i>-test and tables Explain that correlation does not necessarily indicate a causal relationship between two sets of data 	p1–9 Worked examples p6, p7 Short-answer Qs p2, p6, p7 TOK p8 End-of-chapter Qs p9–11	Support: Q1, Q2, Q3	Practical activity: error bar practical with photosynthesis experiments Link to TOK: use of statistics as an objective standard in science Link to ICT: use of spreadsheets Exemplar exam questions

Note: 1 lesson = approximately 40 minutes