

Year 8 Overview

Autumn 1

7B/21

Number 1
Fractions 7B
Only if necessary
5 lessons

2

Number 2
Factor trees
Indices
HCF LCM
Square and square roots
6 lessons

Deduce and use formulae for the area of a triangle and parallelogram, and the volume of a cuboid; calculate volumes and surface areas of cuboids.

Shape and space 1
Volume 7B
Only if necessary
5 lessons

7B/22

1

Handling Data 1
Diagrams
3 lessons
+ 3 lessons in computer room

3

Shape and space 2
Pythagoras' theorem
(only top sets ?)
5 lessons

Autumn 2

4

Number 3
Estimation
Using a calculator
STO RCL ()
3 lessons (+3 inst. Pvthaa)

6

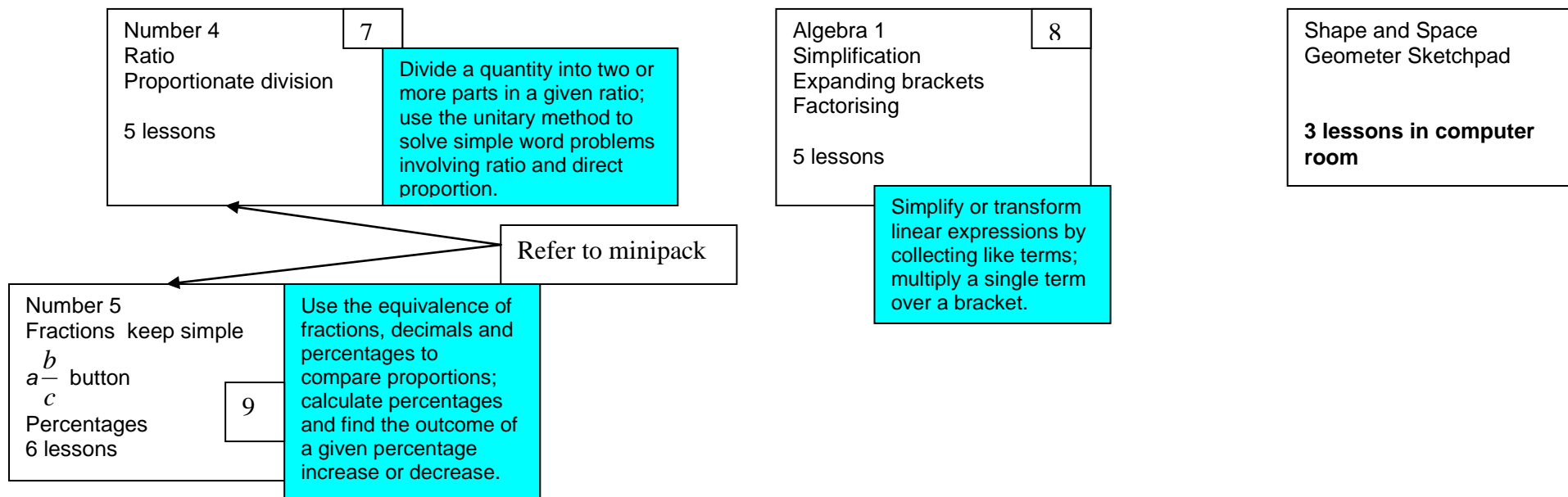
Shape and space 3
2D and 3D shapes
Plans and elevations
Surface area
6 lessons

5

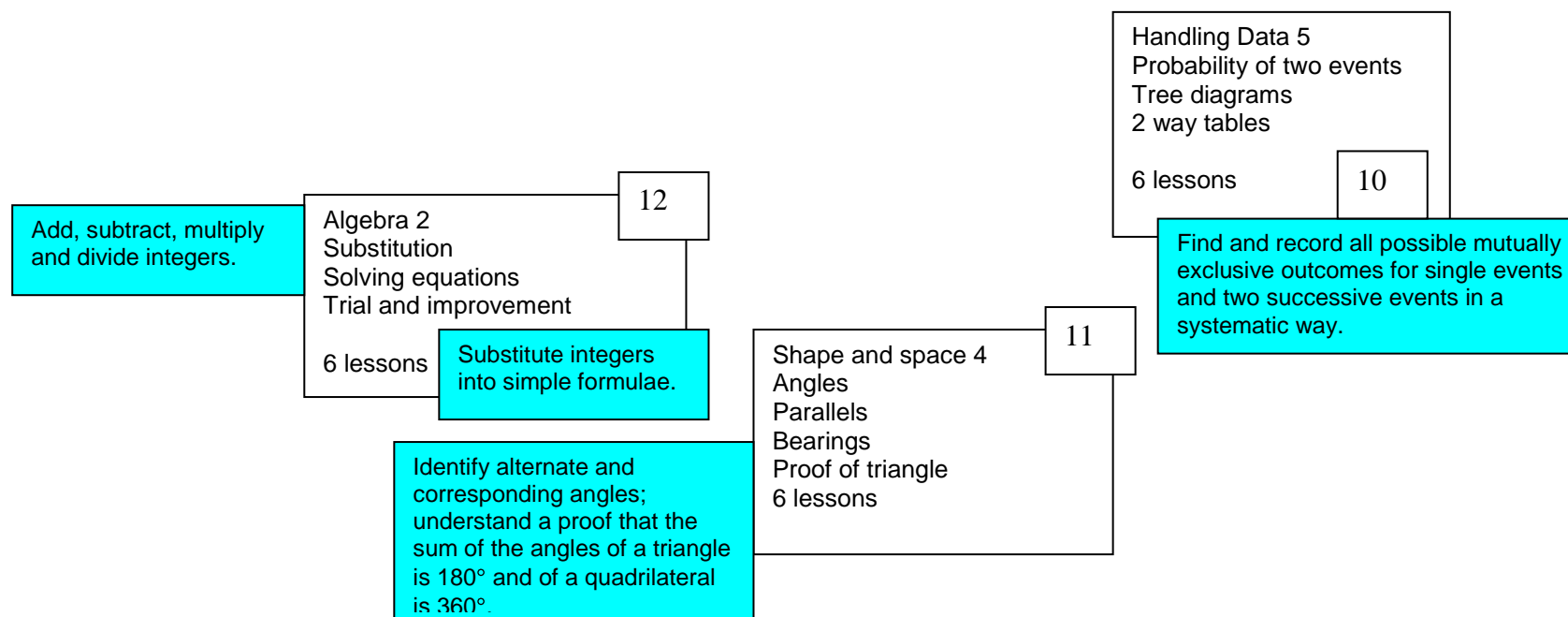
Handling data 3
The data handling cycle
6 lessons
Computer room

Refer to minipack

Spring 1



Spring 2



Summer 1

Number 6
Money and time
2 lessons

13

Examinations 3 lessons

Algebra 3
Straight line graphs
Autograph on computer
6 lessons

14

Plot the graphs of linear functions, where y is given explicitly in terms of x ; recognise that equations of the form $y = mx + c$ correspond to straight-line graphs

Summer 2

Number 7
Units Metric and Imperial
3 lessons

Convert one metric unit to another (e.g. grams to kilograms); read and interpret scales on a range of measuring instruments.

17

Shape and space 7
Speed, distance and time
Compound measures
4 lessons

18

Use measures of speed and other compound measures to solve problems.

Shape and space 5
Angles revised
Polygons
Symmetry
4 lessons

15

Shape and space 6
Circles and area
Not cylinders
Bisect line
6 lessons

16

Use straight edge and compasses to do standard constructions

Shape and space 8
Enlargement and similarity
Link to area and volume
6 lessons

19

Enlarge 2-D shapes, given a centre of enlargement and a positive whole-number scale factor.

Use logical argument to establish the truth of a statement.

Construct, on paper and using ICT, a range of graphs and charts; identify which are most useful in the context of a problem.

Year 7

Use standard column procedures for multiplication and division of integers and decimals, including by decimals such as 0.6 or 0.06; understand where to position the decimal point

Year7

Identify the necessary information to solve a problem; represent problems and interpret solutions in algebraic, geometric or graphical form.

Please keep these overall objectives in mind so that you practise proofs and applying methods in the solution of problems`