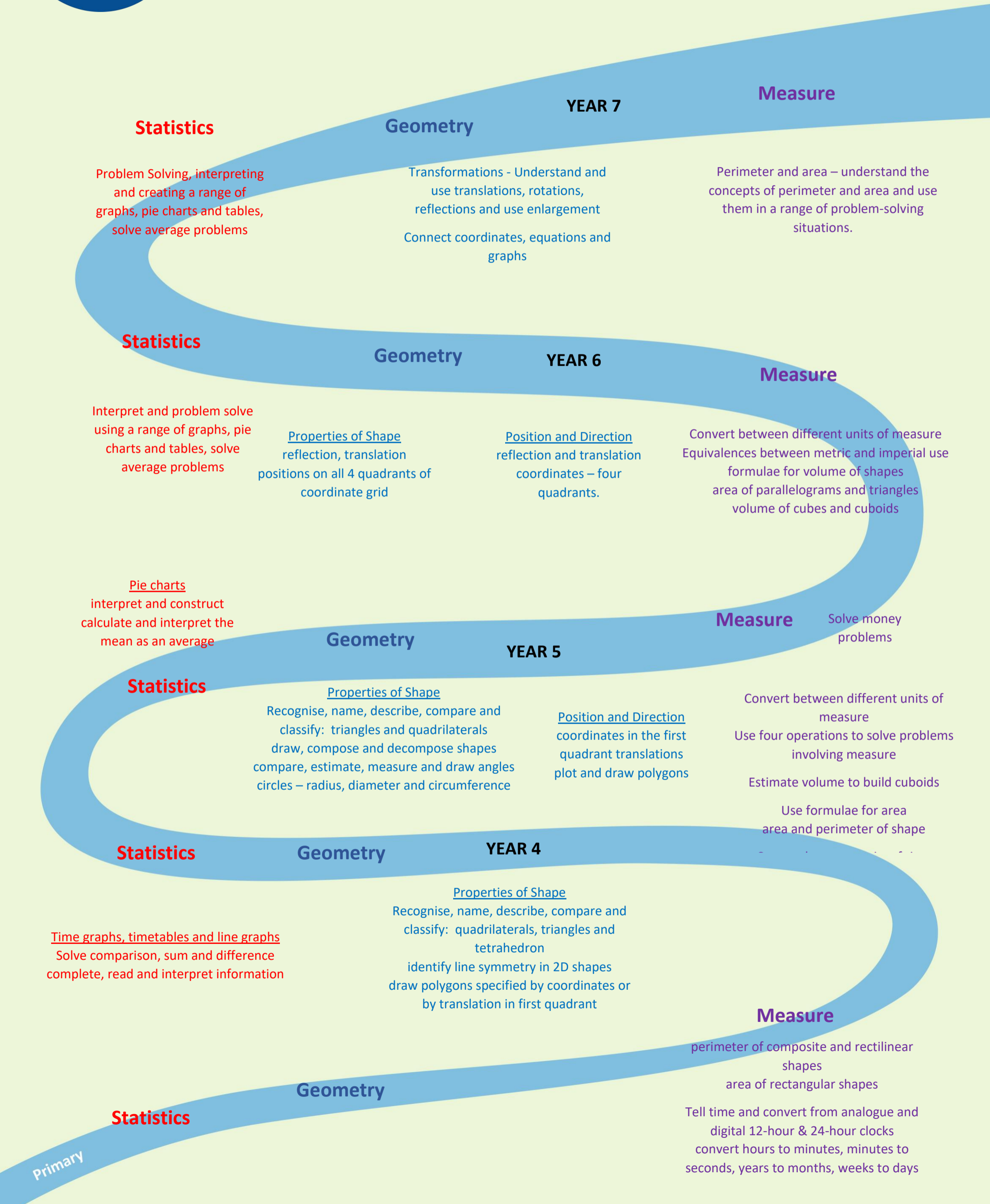




# ALDER COPPICE PRIMARY SCHOOL

## Maths- Statistics, Geometry and Measure



### Statistics

Problem Solving, interpreting and creating a range of graphs, pie charts and tables, solve average problems

### Geometry

Transformations - Understand and use translations, rotations, reflections and use enlargement  
Connect coordinates, equations and graphs

### YEAR 7

### Measure

Perimeter and area – understand the concepts of perimeter and area and use them in a range of problem-solving situations.

### Statistics

Interpret and problem solve using a range of graphs, pie charts and tables, solve average problems

### Geometry

Properties of Shape  
reflection, translation  
positions on all 4 quadrants of coordinate grid

### YEAR 6

Position and Direction  
reflection and translation  
coordinates – four quadrants.

### Measure

Convert between different units of measure  
Equivalences between metric and imperial use formulae for volume of shapes  
area of parallelograms and triangles  
volume of cubes and cuboids

### Pie charts

interpret and construct  
calculate and interpret the mean as an average

### Geometry

Properties of Shape  
Recognise, name, describe, compare and classify: triangles and quadrilaterals  
draw, compose and decompose shapes  
compare, estimate, measure and draw angles  
circles – radius, diameter and circumference

### YEAR 5

Position and Direction  
coordinates in the first quadrant  
translations  
plot and draw polygons

### Measure

Solve money problems

### Statistics

Convert between different units of measure  
Use four operations to solve problems involving measure  
Estimate volume to build cuboids  
Use formulae for area  
area and perimeter of shape

### Statistics

Time graphs, timetables and line graphs  
Solve comparison, sum and difference  
complete, read and interpret information

### Geometry

Properties of Shape  
Recognise, name, describe, compare and classify: quadrilaterals, triangles and tetrahedron  
identify line symmetry in 2D shapes  
draw polygons specified by coordinates or by translation in first quadrant

### YEAR 4

### Measure

perimeter of composite and rectilinear shapes  
area of rectangular shapes

### Statistics

Tell time and convert from analogue and digital 12-hour & 24-hour clocks  
convert hours to minutes, minutes to seconds, years to months, weeks to days

### Geometry

Primary

Add and subtract money and give change

Bar charts, Venn diagrams and Carroll diagrams

interpret and construct  
ask and answer questions  
compare data  
solve one and two step, comparison, sum and difference

## Measure

Estimate and read time to nearest minute  
compare durations  
know seconds in a minute and days in a month, year and leap year

### YEAR 3

## Geometry

#### Properties of Shape

Recognise, name, describe, compare and classify: quadrilaterals and polygons – rhombus, parallelogram, kite, arrowhead, trapezium, all prisms

Identify right angles

draw polygons

identify parallel and perpendicular lines

## Statistics

## Geometry

### YEAR 2

Block diagrams  
interpret and construct  
ask and answer simple questions  
compare data  
solve comparison, sum and difference

#### Properties of Shape

Recognise, name, describe and sort:

2D – heptagon, semi-circle

3D – prism, hemi-sphere

Use pounds and pence  
make amounts of money  
add money and give change

Estimate, measure, compare and order lengths and height, mass and weight, Capacity and volume, temperature, (standard units)

tell the time to five minute intervals  
measure and record time  
know minutes in an hour and hours in a day

## Measure

## Geometry

### YEAR 1

Pictograms and tables  
Use tallies  
interpret and construct  
ask and answer simple questions

#### Properties of Shape

Recognise, name, describe and sort:

2D – square, rectangle, triangle, circle, pentagon, hexagon, octagon  
3D – cube, cuboid, sphere, cylinder, cone, square based pyramid,

Lengths and heights (non-standard units)  
mass and weight (non-standard units)  
value of coins and notes  
language of time and dates

## Statistics

### EYFS

Simple Pictograms & tables

2D/3D shapes

Select, rotate and manipulate shapes in order to develop spatial reasoning skills. Compose and decompose shapes so that children recognise a shape can have other shapes within it.

Select, rotate and manipulate shapes in order to develop spatial reasoning skills.

Compare length, weight & capacity

Comparing Mass

Money problems

## Measure

## Geometry

## Statistics

Primary