

St. Patrick's High School Keady

Mathematics Department

Learning Intentions

Year 10

Unit: Number

Stage: Percentages

At the end of this unit **all** pupils should be able to:

- Increase and decrease a number by a given percentage
- Use a decimal multiplier to calculate a percentage of an amount
- Solve real life percentage problems

At the end of this unit **most** pupils should be able to:

- Use a decimal multiplier to calculate a percentage increase and decrease
- Calculate a percentage increase or decrease
- Calculate compound interest

At the end of this unit **some** pupils should be able to:

- Calculate the original quantity given the result of a percentage change
- Calculate compound interest using the percentage multipliers

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Unit: Number

Stage: Fractions

At the end of this unit **all** pupils should be able to:

- Add and subtract fractions with different denominators
- Multiply and divide fractions
- Convert between mixed number and improper fractions
- Find the reciprocal of a number
- Converting a fraction to a recurring decimal

At the end of this unit **most** pupils should be able to:

- Add, subtract, multiply and divide fractions involving mixed numbers
- Converting a recurring decimal to a fraction

At the end of this unit **some** pupils should be able to:

- Simplify problems involving fractions with algebra

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Unit: Number

Stage: Ratio and Proportion

At the end of this unit **all** pupils should be able to:

- Write a ratio in its simplest form
- Write a ratio in the form 1:n and n:1
- Divide a quantity into a given ratio
- Solve a ratio problem in context

At the end of this unit **most** pupils should be able to:

- Solve problems involving direct proportion
- Convert between metric and imperial measures

At the end of this unit **some** pupils should be able to:

- Solve reverse ratio problems