## NUMBER SENSE AND ALGEBRA - COMPARING UNITS (RATIOS, RATES \& PROPORTION)

## CoU1 - BUILDING RATIOS

$\square$ I can use fractions to divide and compare quantities
$\square$ I can model ratios using diagrams or objects, e.g. in a ratio of 1:4 of red to blue counters, for each red counter there are four blue counters or

## CoU2 - RATIOS \& RATES

$\square$ I can use ratios to make comparisons, e.g. the number of students to teachers in a school is 20:1
$\square$ I can represent a ratio as an equivalent fraction or percentage, e.g. the ratio $1: 1$ is $1 / 2$ or $50 \%$

- I can use a ratio to increase or decrease quantities to maintain consistency, e.g. doubling a recipe


## CoU2 - RATES

- I can interpret rates as a relationship between two different types of quantities, e.g. money per unit of fuel or $\$ 1.26$ per litre
$\square$ I can use rates to determine how quantities change


## CoU3 - APPLYING PROPORTION

$\square$ I can interpret proportion as the equality of two ratios or rates
$\square$ I can use common fractions and decimals for proportional division
$\square$ I can demonstrate how increasing one quantity in a ratio will affect the total proportion
$\square$ I can perform operations with negative integers involving rates, e.g. rates of decent or cooling
$\square$ I can explain and apply the difference between direct and indirect proportion, e.g. direct proportion - working more hours will result in earning more money; indirect - travelling at a greater speed will mean the journey will take less time

