Stage 10 Exploring Fractions, Decimals and Percentages

THE BIG PICTURE

KEYWORDS

- Identify if a fraction is terminating or recurring.
- Interchange terminating fractions, decimals and percentages.
- Use a multiplier to calculate the result of percentage changes.

- Convert a fraction to a recurring decimal, including more complex ones.
- Calculate the result of a repeated change, including compound interest.
- Solve problems involving growth and decay.

- Terminating
- Recurring
- Percentage change
- Increase
- Decrease
- Compound
- Simple
- Interest
- Exponential
- Growth
- Decay

Success Criteria	Before Topic	After Topic	Teacher Mark
Convert a fraction to a recurring decimal.			
Convert a recurring decimal of the form $0.\dot{x}$, $0.\dot{x}\dot{y}$, $0.\dot{x}\dot{y}\dot{z}$ to a fraction.			
Convert a recurring decimal of the form $0.0\dot{x}$, $0.0\dot{x}\dot{y}$ to a fraction.			
Recognise when a situation involves compound interest.			
Set up a compound interest problem.			
Calculate the result of a repeated percentage change, including compound interest.			
Set up a growth or decay problem.			
Solve problems involving growth and decay.			