



Dear Parents and Carers,

Welcome back to Term 2. This term is an exciting term for Year 7 as they will be participating in a variety of engaging topics in Maths, Science, Technology and PDHPE.

Maths

This term, Year 7 will be focusing on the relationship between percentages, fractions, and decimals, how to add, subtract, multiply and divide when using decimals as well as converting fractions into decimals and percentages. This term Year 7 begin learning about algebra, in particular, the process of substitution, distributive law, and associative law. Furthermore, we will be learning negative integers.

Report Outcomes

1. Convert decimals to fractions and fractions to decimals
2. Round and repeat decimals
3. Add and subtract decimals
4. Multiply and divide decimals by multiples of 10s
5. Convert percentages into decimals and fractions and reverse
6. Find percentages of an amount
7. Find one amount of a percentage of another
8. Create and apply substitution to algebra formula
9. Use simplifying and distributive law and associative law
10. Apply integers on a number line and number plane
11. Add, subtract, divide and multiply negative and positive integers

Science

In science, this term we are researching how simple machines' motion is changed by unbalanced forces. Year 7 are also investigating physical and chemical reactions; through which they will learn how pure and mixed substances can be combined and separated using a range of techniques. Finally, students will investigate renewable and non-renewable resources.

Report Outcomes

1. Apply and understand difference between pulleys, levers, and gears
2. Explain how machines transform energy
3. Identify and explain simple machines
4. Describe physical change, chemical change and chemicals reactions
5. Demonstrate difference between mixtures, suspensions, solutions solids
6. Describe different types of resources and their purposes
7. Discuss water, forest, and fossil fuel resources

Technology

This term students will be building upon Term 1's coding skills; working collaboratively to design their own video game using block coding, animation, sound effects. Students will aim to design and test an online game which helps other students learn. Students will also be researching how different digital network function.

Report Outcomes

1. Explain how mobile networks, cloud-based information, the internet
2. Explain how colours are represented in images and videos moderately complex digital game system
3. Identify features that make games effective
4. Apply algorithms, loops, and functions to create interactive instructions

PDHPE

Year 7 this term will be learning about the different types of friendships and relationships they may encounter at school or at home. Students will focus: on building respect, identifying their rights and responsibilities and recognizing harassment in these situations. In PE, students will learn how to modify games to benefit their movement awareness, heighten their decision making skills during a game, and demonstrate how effort, space, time, objects and people can enhance movement sequences

Report Outcomes

1. Clarify what they value about partners and relationships
2. Identify their own expectations of relationships
3. Identify behaviours that show respect in relationships
4. Explore the concept of building a respectful relationship
5. Identify behaviours that show respect in relationships
6. Identify the nature of violence and harassment
7. Investigate cultural and historical significance of a range of physical activities
8. Use feedback to improve body control and coordination when moving
9. Evaluate and justify reasons for decisions and choices of action
10. Modify rules and scoring systems to allow for fair play, safety and inclusive participation