BRACKEN RIDGE STATE HIGH SCHOOL

Year 7   Subject Mathematics

Overview

TERM ALLOCATION AND LENGTH	UNIT	SUB TOPICS	ASSESSMENT
1	Number and Algebra & Measurement and Geometry	*Students solve problems involving the comparison, addition and subtraction of integers. They make the connections between whole numbers and index notation and the relationship between perfect squares and square roots.* *They describe different views of three-dimensional objects. Students use formulas for the area and perimeter of rectangles and calculate volumes of rectangular prisms. Students classify triangles and quadrilaterals.*	Exam – Investigating index notation, fractions and integers- Short response, mathematical justification In Class Assignment - Investigating properties of shape and solving an authentic problem. - extended response, mathematical justification
2	Number and Algebra & Measurement and Geometry & Statistics and Probability	*Students use fractions, decimals and percentages, and their equivalences. They express one quantity as a fraction or percentage of another.* *Students determine the sample space for simple experiments with equally likely outcomes and assign probabilities to those outcomes.*	Exam – Solving algebra, Solving Linear equations Short response, mathematical justification Exam - chance problems Short response with Mathematical Justification
3	Number and Algebra Money and Financial Mathematics	*Students solve problems involving addition and subtraction of integers. They make the connections between whole numbers and index notation.* *They solve problems involving percentages and all four operations with fractions and decimals. They compare the cost of items to make financial decisions. Students represent numbers using variables.* *Students use fractions, decimals and percentages, and their equivalences. They express one quantity as a fraction or percentage of another.*	Exam – Applying Integer and real number concepts- Short response, mathematical justification Genre: In Class Assignment – Making financial decisions. - extended response, mathematical justification
4	Measurement and Geometry & Statistics and Probability	***They represent transformations in the Cartesian plane. They solve simple numerical problems involving angles formed by a transversal crossing two lines. Students identify issues involving the collection of continuous data. They describe the relationship between the m They name the types of angles formed by a transversal crossing parallel line. . They calculate mean, mode, median and range for data sets. They construct stem-and-leaf plots and dot-plots.edian and mean in data displays.***	Exam – Applying data and geometry concepts- Short response, mathematical justification