

MATHEMATICS
SS III
FIRST TERM

THEME: NUMBER AND NUMERATION

WEEK	TOPIC	PERFORMANCE OBJECTIVES	CONTENT	ACTIVITIES		TEACHING AND LEARNING RESOURCES	EVALUATION GUIDE
				TEACHER	STUDENTS		
1	Surd	Students should be able to: (1) differentiate between rational and irrational numbers. (2) state the rules of addition and subtraction and apply them in simplifying surds. (3) state the rules of multiplication and division and apply them in simplifying surds. (4) use conjugate binomial surds to solve problems. (5) apply the concept of surd to problems involving trigonometric ratios of angle 30° , 60° , 45° etc.	(1) Meaning of rational and irrational numbers leading to the definition of surd. (2) The rules guiding the basic operation with surds i.e. $\sqrt{a} + \sqrt{b} \neq \sqrt{b+a}$, $\sqrt{a} - \sqrt{b} \neq \sqrt{a-b}$, $\sqrt{a} \times \sqrt{b} \neq \sqrt{b \times a}$, $\sqrt{a} \div \sqrt{b} \neq \sqrt{\frac{a}{b}}$ (3) Conjugate of a binomial surd using the idea of difference of two squares. (4) Application to solving triangles involving trigonometric ratios of special angles of 30° , 60° and 45° . (5) Evaluation of expression involving surds.	Guides students to: (1) Differentiate between the rational and irrational numbers leading to the definition of surd. (2) Perform the operation of addition and subtraction of numbers in surdic form. (3) Conjugate binomial surds using the idea leading to the difference of two squares. (4) Appreciate the application of surds to trigonometric ratios e.g. $\sin 60^\circ = \frac{\sqrt{3}}{2}$ $\sin 45^\circ = \frac{1}{\sqrt{2}}$	(1) Differentiate between rational and irrational number leading to the definition of surd. (2) Perform and solve problems on addition, subtraction, multiplication and division of surdic numbers. (3) Verify the rules of the operation of addition, subtraction, multiplication and division. (4) Apply the principle of difference of two squares to conjugate surdic expressions. (5) Relate surds to trigonometric ratio.	(1) Surdic operation charts on addition, subtraction, multiplication and division. (2) Conjugate charts.	Students to: (1) define surds (2) addition, subtraction, multiplication and division of surdic numbers (3) use conjugate to solve surdic expression (4) relate surds to trigonometric ratios.

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Chao Zhang



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web the block diagram of a linear power supply is as shown in the following figure in spite of the above disadvantages linear power supplies are widely used in low noise amplifiers test equipment control circuits in addition they

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web smps rely on pwm to control the average value of the output voltage the average value of the repetitive pulse waveform

depends on the area under the waveform as load increases output voltage tends to fall most switching power supplies regulate their output using the method called pulse width modulation pwm

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web feb 25 2021 fig block diagram of smmps the working of smmps is clearly explained in the above block diagram and each block is explained properly in the following section input section the input supply of our

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