

2022 / 2023
SESSION



SEKOLAH MENENGAH KEBANGSAAN badak
BACHOK, KELANTAN.

**YEARLY LESSON PLAN
MATHEMATICS KSSM
FORM 3**

DAILY LESSON PLAN
MATHEMATICS KSSM FORM 3

WEEK	CONTENT STANDARD	LEARNING STANDARD		PL	REMARKS
LEARNING AREA : NUMBERS AND OPERATIONS TITLE : 1. INDICES				HEBAT MODULE : 31	
WEEK 1 21 Mar - 26 Mar 2022	1.1 Index Notation	1.1.1	Represent repeated multiplication in index form and describe its meaning.	PL1	
		1.1.2	Rewrite a number in index form and vice versa.	PL2	
WEEK 2 27 Mar - 02 Apr 2022	1.2 Law of Indices	1.2.1	Relate the multiplication of numbers in index form with the same base, to repeated multiplications, and hence make generalisation.	PL3	
		1.2.2	Relate the division of numbers in index form with the same base, to repeated multiplications, and hence make generalisation.	PL3	
		1.2.3	Relate the numbers in index form raised to a power, to repeated multiplication, and hence make generalisation.	PL3	
		1.2.4	Verify that $a^0 = 1$ dan $a^{-n} = \frac{1}{a^n}$; $a \neq 0$.	PL3	
WEEK 3 03 Apr - 09 Apr 2022		1.2.5	Determine and state the relationship between fractional indices and roots and powers.	PL4	
		1.2.6	Perform operations involving laws of indices.	PL5	
		1.2.7	Solve problems involving laws of indices.	PL6	
LEARNING AREA : NUMBERS AND OPERATIONS TITLE : 2. STANDARD FORM				HEBAT MODULE : 22	
WEEK 4 10 Apr - 16 Apr	2.1 Significant Figures	2.1.1	Explain the meaning of significant figure, and hence determine the number of significant figures of a number.	PL1	

WEEK	CONTENT STANDARD	LEARNING STANDARD		PL	REMARKS
2022		2.1.2	Round off a number to certain numbers of significant figures.	PL2	
	2.2 Standard Form	2.2.1	Recognise and write numbers in standard form.	PL2 PL3	
		2.2.2	Perform basic arithmetic operations involving numbers in standard form.	PL4 PL5	
		2.2.3	Solve problems involving numbers in standard form.	PL6	
LEARNING AREA : NUMBERS AND OPERATIONS TITLE : 3. CONSUMER MATH : SAVINGS AND INVESTMENT, CREDIT AND DEBT					HEBAT MODULE : 16, 17
WEEK 5 17 Apr - 23 Apr 2022	3.1 Savings and Investments	3.1.1	Recognise various types of savings and investments.	PL1	NUZUL AL-QURAN 19 APR
		3.1.2	Perform calculations involving simple interest and compound interest for savings, and hence explain the impact of changes in period, rate of interest or return and compounding frequency on the future value of savings	PL3	
		3.1.3	Perform calculations involving the value of return of investments, and hence explain the factors that affect the return of investments and its impacts.	PL2 PL5	
WEEK 6 24 Apr -30 Apr 2022		3.1.4	Compare and contrast potential risks, return and liquidity of various types of savings and investments.	PL2	
		3.1.5	Calculate the average cost per share for the investment of shares using the ringgit cost averaging strategy and explain the benefits of the strategy.	PL3 PL4	
		3.1.6	Solve problems involving savings and investments.	PL5	

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WEEK 7 01 May - 07 May 2022	HARI RAYA AIDIL FITRI				
WEEK 8 08 May - 14 May 2022	3.2 Credit and Debt Management	3.2.1	Explain the meaning of credit and debt, and hence describe the wise management of credit and debt.	PL1 PL3	
		3.2.2	Investigate and describe the advantages and disadvantages of credit card and ways to use it wisely.	PL2	
		3.2.3	Investigate and describe the impact of minimum and late payments for credit card usage.	PL4	
WEEK 9 15 May - 21 May 2022		3.2.4	Solve problems involving the use of credit cards.	PL5	
		3.2.5	Calculate the total amount of loan repayment and instalment, with various interest rates and different loan periods.	PL6	
		3.2.6	Solve problems involving loans.	PL6	
LEARNING AREA : MEASUREMENT AND GEOMETRY TITLE : 4. SCALE DRAWINGS					HEBAT MODULE : 15
WEEK 10 22 May - 28 May 2022	4.1 Scale Drawings	4.1.1	Investigate and explain the relationship between the actual measurements and the measurements of various sizes of drawings of an object, and hence explain the meaning of scale drawing. Real life situations need to be involved.	PL1	
		4.1.2	Interpret the scale of a scale drawing	PL2	
		4.1.3	Determine the scales, measurements of objects or measurements of scale drawings.	PL3	
		4.1.4	Draw the scale drawings of objects and vice versa.	PL4	

WEEK	CONTENT STANDARD	LEARNING STANDARD		PL	REMARKS
		4.1.5	Solve problems involving scale drawings.	PL4 PL5 PL6	
WEEK 11 29 May - 04 Jun 2022	SCHOOL BASED ASSESSMENT 1				
WEEK 12 05 Jun - 11 Jun 2022	1 st SEMESTER BREAK				
LEARNING AREA : MEASUREMENT AND GEOMETRY TITLE : 5. TRIGONOMETRIC RATIOS				HEBAT MODULE : 30	
WEEK 13 12 Jun - 18 Jun 2022	5.1 Sine, Cosine and Tangent of Acute Angles in Right-angled Triangles	5.1.1	Identify the opposite side and adjacent side based on an acute angle in a right-angled triangle.	PL1	
		5.1.2	Make and verify the conjecture about the relationship between acute angles and the ratios of the sides of right-angled triangles, and hence define sine, cosine and tangent.	PL2	
		5.1.3	Make and verify the conjecture about the impact of changing the size of the angles on the values of sine, cosine and tangent.	PL3	
WEEK 14 19 Jun - 25 Jun 2022		5.1.4	Determine the values of sine, cosine and tangent of 30°, 45° and 60° angles without using a calculator.	PL4	
5.1.5		Determine the values of sine, cosine and tangent of 30°, 45° and 60° angles without using a calculator.	PL3		
WEEK 15 26 Jun - 02 Jul 2022		5.1.6	Perform calculations involving sine, cosine and tangent.	PL4	
		5.1.7	Solve problems involving sine, cosine and tangent.	PL5 PL6	

WEEK	CONTENT STANDARD	LEARNING STANDARD		PL	REMARKS
LEARNING AREA : MEASUREMENT AND GEOMETRY TITLE : 6. ANGLES AND TANGENTS OF CIRCLES					HEBAT MODULE : 29
WEEK 16 03 Jul - 09 Jul 2022	6.1 Angle at the Circumference and Central Angle Subtended by an Arc	6.1.1	Make and verify conjectures about the relationships between i. angles at the circumference, ii. angles at the circumference and central angle subtended by particular arcs, and hence use the relationships to determine the values of angles in circles.	PL1 PL2	
		6.1.2	Solve problems involving angles in circles.	PL4	
WEEK 17 10 Jul - 16 Jul 2022	6.2 Cyclic Quadrilaterals	6.2.1	Recognise and describe cyclic quadrilaterals.	PL1	
		6.2.2	Make and verify conjectures about the relationships between angles of cyclic quadrilaterals, and hence use the relationships to determine the values of angles of cyclic quadrilaterals.	PL3	
		6.2.3	Solve problems involving cyclic quadrilaterals.	PL4	
WEEK 18 17 Jul - 23 Jul 2022	6.3 Tangents to Circles	6.3.1	Recognise and describe the tangents to circles.	PL2	
		6.3.2	Make and verify conjectures about i. the angle between tangent and radius of a circle at the point of tangency, ii. the properties related to two tangents to a circle, iii. the relationship of angle between tangent and chord with the angle in the alternate segment which is subtended by the chord, and hence perform the related calculations.	PL3 PL4 PL6	

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		6.3.3	Solve problems involving tangents to circles.	PL6	
	6.4 Angles and Tangents of Circles	6.4.1	Solve problems involving angles and tangents of circles.	PL5 PL6	
LEARNING AREA : MEASUREMENT AND GEOMETRY TITLE : 7. PLANS AND ELEVATIONS				HEBAT MODULE : 28	
WEEK 19 24 Jul - 30 Jul 2022	7.1 Orthogonal Projections	7.1.1	Draw orthogonal projections.	PL1 PL3	AWAL MUHARRAM 30 JUL
		7.1.2	Compare and contrast between objects and the corresponding orthogonal projections.	PL2	
WEEK 20 31 Jul - 06 Aug 2022	7.2 Plans and Elevations	7.2.1	Draw the plan and elevations of an object to scale.	PL4	
		7.2.2	Synthesise plan and elevations of an object and sketch the object.	PL5 PL6	
		7.2.3	Solve problems involving plans and elevations.	PL4 PL5 PL6	
LEARNING AREA : MEASUREMENT AND GEOMETRY TITLE : 8. LOCI IN TWO DIMENSIONS				HEBAT MODULE : -	
WEEK 21 07 Aug - 13 Aug 2022	8.1 Loci	8.1.1	Recognise loci in real life situations and hence explain the meaning of locus.	PL1	
	8.2 Loci in Two Dimensions	8.2.1	Describe the locus of points that are of i. constant distance from a fixed point, ii. equidistant from two fixed points, iii. constant distance from a straight line, iv. equidistant from two parallel lines, and	PL2 PL3	

WEEK	CONTENT STANDARD	LEARNING STANDARD		PL	REMARKS
			v. equidistant from two intersecting lines, and hence construct the locus.		
WEEK 22 14 Aug - 20 Aug 2022		8.2.2	Determine the locus that satisfies two or more conditions.	PL3	
		8.2.3	Solve problems involving loci.	PL4 PL5 PL6	
WEEK 23 21 Aug - 27 Aug 2022	SCHOOL BASED ASSESSMENT 2				
WEEK 24 28 Aug - 03 Sep 2022	SCHOOL BASED ASSESSMENT 2				
WEEK 25 04 Sep - 10 Sep 2022	2 nd SEMESTER BREAK				
LEARNING AREA : RELATIONSHIP AND ALGEBRA TITLE : 9. STRAIGHT LINES					HEBAT MODULE : 7, 8., 10, 23
WEEK 26 11 Sep - 17 Sep 2022	9.1 Straight Lines	9.1.1	Make connection between the equation, $y = mx + c$, and the gradient and y-intercept, and hence make generalisation about the equation of a straight line.	PL1	HARI MALAYSIA 16 SEP
		9.1.2	Investigate and interpret the equations of straight lines in other forms such as $ax + by = c$ and $\frac{x}{a} + \frac{y}{b} = 1$, and change to the form of $y = mx + c$, and vice versa.	PL2	

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WEEK 27 18 Sep - 24 Sep 2022		9.1.3	Investigate and make inference about the relationship between the points on a straight line and the equation of the line.	PL2	
		9.1.4	Investigate and make inference about the gradients of parallel lines.	PL3	
		9.1.5	Determine the equation of a straight line.	PL3	
		9.1.6	Determine the point of intersection of two straight lines.	PL3	
		9.1.7	Solve problems involving straight lines	PL4 PL5 PL6	
WEEK 28 25 Sep - 01 Oct 2022	REVISION				
WEEK 29 02 Oct - 08 Oct 2022	REVISION				
WEEK 30 09 Oct - 15 Oct 2022	PT3 TRIAL EXAMINATION MAULIDUR RASUL 9 OCT				
WEEK 31 16 Oct - 22 Oct 2022	REVISION				
WEEK 32 23 Oct - 29 Oct 2022	REVISION DEEPAVALI 24 OCT				

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WEEK 33 30 Oct - 05 Nov 2022	REVISION			
WEEK 34 06 Nov - 12 Nov 2022	REVISION BIRTHDAY OF THE SULTAN OF KELANTAN 11-12 NOV			
WEEK 35 13 Nov - 19 Nov 2022	PT3 EXAMINATION			
WEEK 36 20 Nov - 26 Nov 2022	POST PT3 ACTIVITIES			
WEEK 37 27 Nov - 03 Dec 2022	POST PT3 ACTIVITIES			
WEEK 38 04 Dec - 10 Dec 2022	3 rd SEMESTER BREAK			
WEEK 39 11 Dec - 17 Dec 2022	3 rd SEMESTER BREAK			
WEEK 40 18 Dec - 24 Dec 2022	3 rd SEMESTER BREAK			
WEEK 41 25 Dec - 31 Dec 2022	3 rd SEMESTER BREAK			
WEEK 42 01 Jan - 07 Jan 2023	POST PT3 ACTIVITIES			

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WEEK 43 08 Jan - 14 Jan 2023	POST PT3 ACTIVITIES			
WEEK 44 15 Jan - 21 Jan 2023	POST PT3 ACTIVITIES			
WEEK 45 22 Jan - 28 Jan 2023	POST PT3 ACTIVITIES			
WEEK 46 29 Jan - 04 Feb 2023	POST PT3 ACTIVITIES			
WEEK 47 05 Feb - 11 Feb 2023	POST PT3 ACTIVITIES			
WEEK 48 12 Feb - 18 Feb 2023	POST PT3 ACTIVITIES			
19 Feb - 11 Mar 2023	END OF 2022/ 2023 ACADEMIC SESSION BREAK			