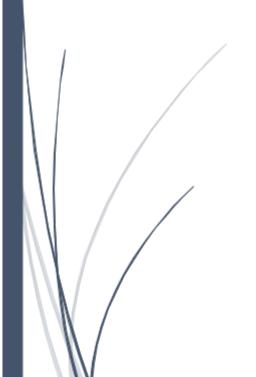
2022 / 2023 SESSION





SEKOLAH MENENGAH KEBANGSAAN badak BACHOK, KELANTAN.

YEARLY LESSON PLAN MATHEMATICS KSSM FORM 2



YEARLY LESSON PLAN MATHEMATICS KSSM FORM 2

| WEEK | CONTENT STANDARD | | LEARNING STANDARD | PL | REMARKS | | | |
|-----------------------------------|--|---------|---|-------------------|------------------|--|--|--|
| | LEARNING AREA: NUMBERS AND OPERATIONS TITLE: 1. PATTERNS AND SEQUENCES | | | | | | | |
| WEEK 1 21 Mar - 26 Mar 2022 | 1.1 Patterns | 1.1.1 | Recognize and describe patterns of various number sets and objects based on real life situations, and hence make generalisation on pattern. | PL2 | | | | |
| | 1.2 Sequences | 1.2.1 | Explain the meaning of sequence. | PL2 | | | | |
| | | 1.2.2 | Identify and describe the pattern of a sequence, and hence complete and extend the sequence. | PL3 | | | | |
| WEEK 2 27 Mar - 02 Apr 2022 | 1.2 Patterns | 1.3.1 | Make generalisation about the pattern of a sequence using numbers, words and algebraic expressions. | PL4 | | | | |
| | | 1.3.2 | Determine specific terms of a sequence. | PL3 | | | | |
| | | 1.3.3 | Solve problems involving sequences. | PL4 PL5 PL6 | | | | |
| | | | G AREA: RELATIONSHIP AND ALGEBRA | LIEDAT | FMODULE - 10, 17 | | | |
| | TITLE | : 2. FA | CTORISATION AND ALGEBRAIC FRACTIONS | HEBAI | MODULE : 16, 17 | | | |
| WEEK 3 03 Apr - 09 Apr | 2.1 Expansion | 2.1.1 | Explain the meaning of the expansion of two algebraic expressions. | PL2 | | | | |
| 2022 | | 2.1.2 | Expand two algebraic expressions. | PL3 | | | | |
| | | 2.1.3 | Simplify algebraic expressions involving combined operations, including expansion. | PL3 | | | | |

| WEEK | CONTENT STANDARD | | LEARNING STANDARD | PL | REMARKS |
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| | | 2.1.4 | Solve problems involving expansion of two algebraic expressions. | PL4 | |
| WEEK 4 10 Apr - 16 Apr 2022 | 2.2 Factorisation | 2.2.1 | Relate the multiplication of algebraic expressions to the concept of factors and factorisation, and hence list out the factors of the product of the algebraic expressions. | PL1 PL2 | |
| | | 2.2.2 | Factorise algebraic expressions using various methods. | PL1 PL2 PL3 | |
| | | 2.2.3 | Solve problems involving factorisation. | PL4 | |
| WEEK 5 17 Apr - 23 Apr 2022 | 2.3 Algebraic Expressions and Laws of Basic Arithmetic Operations. | 2.3.1 | Perform addition and subtraction of algebraic expressions involving expansion and factorisation. | PL3 | NUZUL AL-QURAN 19 APR |
| | | 2.3.2 | Perform multiplication and division of algebraic expressions involving expansion and factorisation. | PL3 | |
| | | 2.3.3 | Perform combined operations of algebraic expressions involving expansion and factorisation. | PL3 PL5 | |
| | LEA | | G AREA: RELATIONSHIP AND ALGEBRA FLE: 3. ALGEBRAIC FORMULAE | j | HEBAT MODULE : 16, |
| WEEK 6 24 Apr -30 Apr | 3.1 Algebraic Formulae | 3.1.1 | Write a formula based on a situation. | PL2 | |
| 2022 | | 3.1.2 | Change the subject of formula of an algebraic equation. | PL3 | |
| | | 3.1.3 | Determine the value of a variable when the value of another variable is given. | PL3 | |
| | | 3.1.4 | Solve problems involving formulae. | PL4 PL6 | |

| WEEK | CONTENT STANDARD | | LEARNING STANDARD | PL | REMARKS | | | |
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| WEEK 7 01 May - 07 May 2022 | | HARI RAYA AIDIL FITRI | | | | | | |
| | LE | ARNIN(| G AREA: MEASUREMENT AND GEOMETRY TITLE: 4. POLYGONS | HEBAT | MODULE : 15 | | | |
| WEEK 8 08 May - 14 May | 4.1 Regular Polygons | 4.1.1 | Describe the geometric properties of regular polygons using various representations. | PL1 PL2 | | | | |
| 2022 | | 4.1.2 | Construct regular polygons using various methods and explain the rationales for the steps of construction. | PL2 | | | | |
| WEEK 9 15 May - 21 May | \mathcal{E} | 4.2.1 | Derive the formula for the sum of interior angles of a polygon. | PL3 | HARI WESAK 15 MAY | | | |
| 2022 | Polygons | 4.2.2 | Make and verify conjectures about the sum of exterior angles of a polygon. | PL2 PL3 | | | | |
| | | 4.2.3 | Determine the values of interior angles, exterior angles and the number of sides of a polygon. | PL3 | | | | |
| | | 4.2.4 | Solve problems involving polygons. | PL4 PL6 | | | | |
| | LEAI | RNING | AREA: MEASUREMENT AND GEOMETRY TITLE: 5. CIRCLES | HEBA | NT MODULE : 29 | | | |
| WEEK 10 22 May - 28 May | 5.1 Properties of Circles | 5.1.1 | Recognise parts of a circle and explain the properties of a circle. | PL1 | | | | |
| 2022 | | 5.1.2 | Construct a circle and parts of the circle based on the conditions given. | PL2 | | | | |
| WEEK 11 29 May - 04 Jun 2022 | | • | SCHOOL BASED ASSESSMENT 1 | • | | | | |

| WEEK | CONTENT STANDARD | | LEARNING STANDARD | PL | REMARKS |
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| WEEK 12 05 Jun - 11 Jun 2022 | | | 1st SEMESTER BREAK | | |
| WEEK 13 12 Jun - 18 Jun 2022 | 5.2 Symmetrical Properties of Chords. | 5.2.1 | Verify and explain that i. diameter of a circle is an axis of symmetry of the circle; ii. a radius that is perpendicular to a chord bisects the chord and vice versa; iii. perpendicular bisectors of two chords intersect at the centre; iv. chords that are equal in length produce arcs of the same length and vice versa; v. chords that are equal in length are equidistant from the centre of the circle and vice versa | PL2 | |
| WEEK 14 19 Jun - 25 Jun 2022 | | 5.2.2 | Determine the centre and radius of a circle by geometrical construction | PL3 | |
| | | 5.2.3 | Solve problems involving symmetrical properties of chords. | PL4 | |
| WEEK 15 26 Jun - 02 Jul 2022 | 5.3 Circumference and Area of a Circle. | 5.3.1 | Determine the relationship between circumference and diameter of a circle, and hence define π and derive the circumference formula. | PL3 PL1 | |
| | | 5.3.2 | Derive the formula for the area of a circle. | PL3 PL1 | |
| | | 5.3.3 | Determine the circumference, area of a circle, length of arc, area of a sector and other related measurements. | PL3 | |
| | | 5.3.4 | Solve problems involving circles. | PL4 PL5 | |

| WEEK | CONTENT STANDARD | | LEARNING STANDARD | PL | REMARKS | |
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| | LEARNING AREA: MEASUREMENT AND GEOMETRY TITLE: 6. THREE DIMENSIONAL GEOMETRICAL SHAPES | | | | | |
| WEEK 16 03 Jul - 09 Jul 2022 | 6.1 Geometric Properties of Three Dimensional Shapes | 6.1.1 | Compare, contrast and classify three dimensional shapes including prisms, pyramids, cylinders, cones and spheres, and hence describe the geometric properties of prisms, pyramids, cylinders, cones and spheres. | PL1 PL2 | | |
| | 6.2 Nets of Three Dimensional Shapes | 6.2.1 | Analyse various nets including pyramids, prisms, cylinders and cones, and hence draw nets and build models. | PL3 | | |
| WEEK 17 10 Jul - 16 Jul 2022 | 6.3 Surface Area of Three Dimensional Shapes | 6.3.1 | Derive the formulae of the surface areas of cubes, cuboids, pyramids, prisms, cylinders and cones, and hence determine the surface areas of the shapes. | PL3 | | |
| | | 6.3.2 | Determine the surface area of spheres using formula. | PL3 | | |
| | | 6.3.3 | Solve problems involving the surface area of three dimensional shapes. | PL4 | | |
| WEEK 18 17 Jul - 23 Jul 2022 | 6.4 Volume of Three Dimensional Shapes | 6.4.1 | Derive the formulae of the volumes of prisms and cylinders, and hence derive the formulae of pyramids and cones. | PL3 | | |
| | | 6.4.2 | Determine the volume of prisms, cylinders, cones, pyramids and spheres using formulae. | PL3 | | |
| | | 6.4.3 | Solve problems involving the volume of three dimensional shapes. | PL3 PL4 PL5 | | |

| WEEK | CONTENT STANDARD | | LEARNING STANDARD | PL | REMARKS | | |
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| | LEARNING AREA: RELATIONSHIP AND ALGEBRA TITLE: 7. COORDINATES | | | | | | |
| WEEK 19 24 Jul - 30 Jul | 7.1 Distance in the Cartesian Coordinate | 7.1.1 | Explain the meaning of distance between two points on the Cartesian plane. | PL2 | AWAL MUHARRAM 30 JUL | | |
| 2022 | System | 7.1.2 | Derive the formula of the distance between two points on the Cartesian plane. | PL2 | | | |
| | | 7.1.3 | Determine the distance between two points on the Cartesian plane. | PL2 PL3 | | | |
| | | 7.1.4 | Solve problems involving the distance between two points in the Cartesian coordinate system. | PL3 PL4 | | | |
| WEEK 20 31 Jul - 06 Aug | 7.2 Midpoint in the Cartesian Coordinate | 7.2.1 | Explain the meaning of midpoint between two points on the Cartesian plane. | PL1 | | | |
| 2022 | System | 7.2.2 | Derive the formula of the midpoint between two points on the Cartesian plane. | PL2 | | | |
| | | 7.2.3 | Determine the coordinates of midpoint between two points on the Cartesian plane. | PL2 PL5 | | | |
| | | 7.2.4 | Solve problems involving midpoint in the Cartesian coordinate system. | PL4 | | | |
| | 7.3 The Cartesian Coordinate System | 7.3.1 | Solve problems involving Cartesian coordinate system | PL4 PL5 | | | |
| | LEARNING AREA: RELATIONSHIP AND ALGEBRA TITLE: 8. GRAPH OF FUNCTIONS | | | | | | |
| WEEK 21 07 Aug - 13 Aug 2022 | 8.1 Functions | 8.1.1 | Explain the meaning of functions. | PL1 PL2 | | | |

| WEEK | CONTENT STANDARD | | LEARNING STANDARD | PL | REMARKS | | |
|------------------------------------|------------------------------------|---------------------------|---|-------------------|-------------------------|--|--|
| | | 8.1.2 | Identify functions and provide justifications based on function representations in the form of ordered pairs, tables, graphs and equations. | PL1 PL2 PL3 | | | |
| WEEK 22 14 Aug - 20 Aug 2022 | 8.2 Graphs of Functions | 8.2.1 | Construct tables of values for linear and non-linear functions, and hence draw the graphs using the scale given. | PL2 PL3 | | | |
| 2022 | | 8.2.2 | Interpret graphs of functions. | PL3 | | | |
| | | 8.2.3 | Solve problems involving graphs of functions | PL5 | | | |
| WEEK 23 21 Aug - 27 Aug 2022 | - 27 Aug 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 | | | | |
| | L | | NG AREA: RELATIONSHIP AND ALGEBRA TLE: 9. SPEED AND ACCELERATION | HE | BAT MODULE : - | | |
| WEEK 26 11 Sep - 17 Sep 2022 | 9.1 Speed | 9.1.1 | Explain the meaning of speed as a rate involving distance and time. | PL1 PL2 | HARI MALAYSIA 16 SEP | | |
| 2022 | | 9.1.2 | Describe the differences between uniform and non-uniform speed. | PL3 | | | |
| | | 9.1.3 | Perform calculation involving speed and average speed including unit conversion. | PL3 | | | |

| WEEK | CONTENT STANDARD | | LEARNING STANDARD | PL | REMARKS | |
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| | | 9.1.4 | Solve problems involving speed | PL4 PL5 | | |
| WEEK 27 18 Sep - 24 Sep 2022 | 9.2 Acceleration | 9.2.1 | Explain the meaning of acceleration and deceleration as a rate involving speed and time. | PL1 PL3 | | |
| 2022 | | 9.2.2 | Perform calculations involving acceleration including unit conversion. | PL3 | | |
| | | 9.2.3 | Solve problems involving acceleration. | PL4 PL5 PL6 | | |
| | L | NG AREA: RELATIONSHIP AND ALGEBRA : 10. GRADIENT OF A STRAIGHT LINE | HEBAT | MODULE: 14 | | |
| WEEK 28 25 Sep - 01 Oct 2022 | 10.1 Gradient | 10.1.1 | Describe gradient and direction of inclination based on real life situations, and then explain the meaning of gradient as a ratio of vertical distance to horizontal distance. | PL1 PL2 | | |
| | | 10.1.2 | Derive the formulae for gradient of a straight line in the Cartesian plane. | PL1 PL3 | | |
| | | 10.1.3 | Make generalisation for the gradient of a straight line. | PL2 | | |
| | | 10.1.4 | Determine the gradient of a straight line. | PL4 | | |
| | | 10.1.5 | Solve problems involving the gradient of a straight line. | PL5 PL6 | | |
| | LEARNING AREA: MEASUREMENT AND GEOMETRY TITLE: 11. ISOMETRIC TRANSFORMATION | | | | | |
| WEEK 29 02 Oct - 08 Oct 2022 | 11.1 Transformations | 11.1.1 | Describe the changes of shapes, sizes, directions and orientations of an object under a transformation, and hence explain the idea of one-to-one correspondence between points in a transformation. | PL1 | | |

| WEEK | CONTENT STANDARD | | LEARNING STANDARD | PL | REMARKS |
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| | | 11.1.2 | Explain the idea of congruency in transformations. | PL1 | |
| | 11.2 Translasi | 11.2.1 | Recognize a translation. | PL1 | |
| | | 11.2.2 | Describe translation by using various representations including vector form. | PL2 PL3 | |
| | | 11.2.3 | Determine the image and object under a translation. | PL3 | |
| | | 11.2.4 | Solve problems involving translation. | PL3 | |
| WEEK 30 09 Oct - 15 Oct | 11.3 Reflection | 11.3.1 | Recognise a reflection. | PL1 PL2 | MAULIDUR RASUL 9 OCT |
| 2022 | | 11.3.2 | Describe reflection using various representations. | PL2 | |
| | | 11.3.3 | Determine the image and object under a reflection. | PL3 | |
| | | 11.3.4 | Solve problems involving reflection. | PL3 | |
| WEEK 31 | 11.4 Rotation | 11.4.1 | Recognise a rotation. | PL1 | |
| 16 Oct - 22 Oct 2022 | | 11.4.2 | Describe rotation using various representations. | PL2 | |
| | | 11.4.3 | Determine the image and object under a rotation. | PL3 | |
| | | 11.4.4 | Solve problems involving rotation. | PL3 | |
| WEEK 32 23 Oct - 29 Oct 2022 | 11.5 Translation, Reflection and Rotation as an Isometry | 11.5.1 | Investigate the relationship between the effects of translation, reflection and rotation and the distance between two points on an object and image, and hence explain isometry. | PL2 | DEEPAVALI 24 OCT |
| | | 11.5.2 | Explain the relationship between isometry and congruency. | PL2 PL3 | |
| | | 11.5.3 | Solve problems involving isometry and congruency. | PL4 | |
| | 11.6 Rotational Symmetry | 11.6.1 | Explain rotational symmetry. | PL2 | |

| WEEK | CONTENT STANDARD | | LEARNING STANDARD | PL | REMARKS | |
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| | | 11.6.2 | Determine the degree of rotational symmetry of an object. | PL3 | | |
| | | | IG AREA: STATISTICS AND PROBABILITY 12. MEASURES OF CENTRAL TENDENCIES | HEBA | T MODULE : 4, 5, 12 | |
| WEEK 33 30 Oct - 05 Nov | 12.1 Measures of Central Tendencies | 12.1.1 | Determine the mode, mean and median of a set of ungrouped data | PL1 PL2 | | |
| 2022 | | 12.1.2 | Make conclusions about the effect of changes in a set of data to the value of mode, mean and median. | PL3 | | |
| | | 12.1.3 | Collect data, construct and interpret the frequency table for grouped data. | PL3 | | |
| | | 12.1.4 | Determine the modal class and mean of a set of grouped data. | PL3 PL4 | | |
| WEEK 34 06 Nov - 12 Nov 2022 | | 12.1.5 | Choose and justify the appropriate measures of central tendencies to describe the distribution of a set of data, including those with extreme values. | PL3 | KEP. SULTAN KEL 11-12 NOV | |
| | | 12.1.6 | Determine mode, mean and median from data representations. | PL3 PL4 | | |
| | | 12.1.7 | Apply the understanding of measures of central tendencies to make predictions, form convincing arguments and make conclusions. | PL5 PL6 | | |
| | LEARNING AREA: STATISTICS AND PROBABILITY TITLE: 13. SIMPLE PROBABILITY | | | | | |
| WEEK 35 13 Nov - 19 Nov 2022 | 13.1 Experimental Probability | 13.1.1 | Perform simple probability experiments, and hence state the ratio frequency of an event number of trials as the experimental probability of an event. | PL1 | | |

| WEEK | CONTENT STANDARD | | LEARNING STANDARD | PL | REMARKS |
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| | | 13.1.2 | Make conclusions about the experimental probability of an event when the number of trials are large enough. | PL2 | |
| | 13.2 Probability Theory | 13.2.1 | Determine the sample space and events of an experiment. | PL2 | |
| | involving Equally Likely Outcomes | 13.2.2 | Construct probability models for an event, and hence make connection between theoretical probability and experimental probability. | PL4 | |
| | | 13.2.3 | Determine the probability of an event. | PL4 | |
| WEEK 36 20 Nov - 26 Nov 2022 | 13.3 Probability of the Complement of an Event | 13.3.1 | Describe the complement of an event in words and by using set notations. | PL2 | |
| 2022 | | 13.3.2 | Determine the probability of the complement of an event | PL3 PL4 | |
| WEEK 37 27 Nov - 03 Dec 2022 | 13.4 Simple Probability | 13.4.1 | Solve problems involving the probability of an event. | PL5 PL6 | |
| 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 | | | REVISION | | |

| WEEK | CONTENT STANDARD | LEARNING STANDARD | PL | REMARKS | | | | | |
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| WEEK 43 08 Jan - 14 Jan 2023 | | REVISION | | | | | | | |
| WEEK 44 15 Jan - 21 Jan 2023 | | REVISION | | | | | | | |
| WEEK 45 22 Jan - 28 Jan 2023 | | REVISION | | | | | | | |
| WEEK 46 29 Jan - 04 Feb 2023 | | REVISION | | | | | | | |
| WEEK 47 05 Feb - 11 Feb 2023 | | SCHOOL BASED ASSESSMENT 3 | | | | | | | |
| WEEK 48 12 Feb - 18 Feb 2023 | | SCHOOL BASED ASSESSMENT 3 | | | | | | | |
| 19 Feb - 11 Mar 2023 | | END OF 2022/ 2023 ACADEMIC SESSION BREAK | | | | | | | |