COORDINATING TEACHER’S NAME: DAJEL JOEL

SUBJECT: MATHEMATICS

CLASS: JSS 2

TELEPHONE NUMBER OF COORDINATING TEACHER: 07036085293

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| WEEK | TOPIC | CONTENT ELEMENT | BEHAVIORAL OBJECTIVE | PRACTICE QUESTIONS |
| 1. | Calculating using standard form | i. Addition and subtraction of numbers in numbers in standard form.  ii. Multiplication of numbers  in standard form  iii. Solving mixed problems  using standard form | By the end of the lesson, students should be able to  1. Add and subtract numbers in standard form  2. Multiply and divide numbers in standard form  3. Solve mixed problems using standard form | 1 1. Find the value of 3.4 x 103 + 6.2 x 105  2. Find the value of 9.37 x 104 – 6.51 x104  3. Simplify( 2.3 x106) x( 2.7 x 104)  4. Simplify (8.4 x 10-6) ÷ (4.2 x 10-4)  5. The diameter of the earth and moon are 1.28 x104km and 3.5 x103km respectively.  Find the ratio, diameter of earth: diameter of moon |
| 2. | Formulae | i. Substitution in formulae  ii.Change of subject of formulae involving simple equation.  iii. Square and square roots | By the end of the lesson, students should be able to:  1. Substitute values in formula.  2. Change the subject of the formula in the following - simple equation, equation with fraction, equation with square and square roots. | 1. The circumference C units of the circle of radius r units is given by the formula C = 2πr where =, what is the circumference of a circle of radius 7 cm?  2. If Y= 3-X, find the value of Y when X = 1, 2, 3, 4, 5?  3. Make X the subject of the formula in 2X-Y=D.  4. Make b the subject of the formula in V=bh?  5. Make r the subject of the formula in V= πr2h.  6. Make Z the subject of the formula in X= y2 + z2. |
| 3 | Similarity and enlargement. | i. Similarity of object  ii. Similarity of plane and solid shapes.  iii. Similar triangles. | 1. Identify similar plane shapes.  2. Identify similar solid shapes.  3. Calculate ratio of corresponding sides in a triangle.’  4. Find the scale factor of two shapes | 1. In a triangle ABC and EDF, AB=12cm, BC=10cm, AC=8cm and ED=18cm, EF=15cm, DF=12cm.Find the ratio of the corresponding sides of the two triangle  2. State why triangle ABC and ADE are similar if AB=8m, AC=9m, BC=6m and AD=12m. Find AE and DE  3. A cuboids is 4cm long, 7cm wide and 10cm high. Similar cuboid is 25cm high. Calculate its length and width  4.Two rectangle are QXYZ and OBCD, OB=3cm, XB=2cm.Find their scale factor |
| 4 | Factorization of quadratic expression | i. Expansion of algebraic expression.  ii. Factorization of quadratic expression.  iii. Perfect squares.  iv. Difference of two squares. | 1. Expand algebraic expression.  2. Factorize algebraic expression.  3. Find perfect squares.  4. Find difference of two squares. | 1. Expand (a + 2)(a + 3)  2. Expand (x – 5)2  3. Factorize x2 – 9x + 8  4. Factorize 49m2 – n2  5. Factorize 25 – u2v2 |