

**GRADE 10 ESSENTIAL MATHEMATICS TERM 2 RECORDS OF WORK**

**Week 1 Header**

| TERM   | WEEK | DATES | MON | TUE | WED | THU | FRI |
|--------|------|-------|-----|-----|-----|-----|-----|
| Term 2 | 1    |       |     |     |     |     |     |

**Week 1 Main Records of Work**

| SUBJECT & GRADE      | DAY | PERIOD | STRAND & WORK COVERED                                                                                                                                                                                                                                              | REFERENCE / MAIN BOOK AND ITS PAGES   | REMARKS                     |
|----------------------|-----|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------|
| Grade 10 Mathematics |     | 1      | 2.0 Measurements and Geometry - 2.3 Trigonometry: Identify sides of a right-angled triangle relative to a given angle. How can we identify sides of a right-angled triangle? Learners observe diagrams of triangles and discuss opposite, adjacent and hypotenuse. | Charts, geometry set, triangle models | Oral questions, observation |
| Grade 10 Mathematics |     | 2      | 2.0 Measurements and Geometry - 2.3 Trigonometry: Determine sine ratio of an acute angle. How do we calculate sine of an angle? Teacher demonstration and learner practice calculating sine ratios.                                                                | Scientific calculators, charts        | Class exercises             |
| Grade 10 Mathematics |     | 3      | 2.0 Measurements and Geometry - 2.3 Trigonometry: Determine cosine ratio of an acute angle. How does cosine help us solve triangle problems? Learners work in pairs to calculate cosine values from triangles.                                                     | Calculators, textbooks                | Written exercises           |
| Grade 10 Mathematics |     | 4      | 2.0 Measurements and Geometry - 2.3 Trigonometry: Determine tangent ratio of an acute angle. When do we use tangent ratio? Learners measure sides of triangles and compute tangent.                                                                                | Geometry set                          | Observation, quiz           |
| Grade 10 Mathematics |     | 5      | 2.0 Measurements and Geometry - 2.3 Trigonometry: Apply trigonometric ratios in solving problems. How do trigonometric ratios solve real problems? Problem solving activities involving heights and distances.                                                     | Calculators, charts                   | Assignment                  |

**Week 1 Footer Table**

| General comments if any | Head master | Date |
|-------------------------|-------------|------|
|                         |             |      |

**Week 2 Header**

| TERM   | WEEK | DATES | MON | TUE | WED | THU | FRI |
|--------|------|-------|-----|-----|-----|-----|-----|
| Term 2 | 2    |       |     |     |     |     |     |

**Week 2 Main Records of Work**

| SUBJECT & GRADE      | DAY | PERIOD | STRAND & WORK COVERED                                                                                                                                                                                                   | REFERENCE / MAIN BOOK AND ITS PAGES | REMARKS              |
|----------------------|-----|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------|
| Grade 10 Mathematics |     | 1      | 2.0 Measurements and Geometry – 2.3 Trigonometry: Relate trigonometric ratios to angles of elevation. How can we measure height using trigonometry? Outdoor activity measuring tree height using angle of elevation.    | Clinometer, tape measure            | Practical assessment |
| Grade 10 Mathematics |     | 2      | 2.0 Measurements and Geometry – 2.3 Trigonometry: Relate trigonometric ratios to angles of depression. Where do we see angles of depression in daily life? Learners solve real-life scenarios involving viewing angles. | Charts                              | Oral questions       |
| Grade 10 Mathematics |     | 3      | 2.0 Measurements and Geometry – 2.3 Trigonometry: Solve problems involving sine and cosine. How can sine and cosine help solve real problems? Guided examples and peer discussion.                                      | Calculators                         | Classwork            |
| Grade 10 Mathematics |     | 4      | 2.0 Measurements and Geometry – 2.3 Trigonometry: Solve problems involving tangent. How can tangent help calculate heights? Learners compute height of buildings from distance.                                         | Calculators                         | Quiz                 |
| Grade 10 Mathematics |     | 5      | 2.0 Measurements and Geometry – 2.3 Trigonometry: Appreciate application of trigonometry. Why is trigonometry important in real life? Learners discuss applications in engineering and navigation.                      | Videos, charts                      | Presentation         |

**Week 2 Footer Table**

| General comments if any | Head master | Date |
|-------------------------|-------------|------|
|                         |             |      |