**MATHEMATICS SCHEMES OF WORK FOR STD 7 TERM THREE 2021**

| **WK** | **LES** | **TOPIC** | **SUB- TOPIC** | **OBJECTIVES** | **L/ ACTIVITIES** | **L/T RESOURCES** | **REFERENCE** | **REMAR-KS** |
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| 1 | 1,2 | Revision of content covered in Term two in preparations for term 3 work | | | | | |  |
| 3 | ALGEBRA | Forming algebraic expressions | By the end of the lesson the pupil should be able to; form algebraic expressions involving one unknown | -Forming algebraic expression  -Discussion on finding solutions of algebraic equations in one unknown | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 122 |  |
| 4 | ALGEBRA | Forming algebraic expressions | By the end of the lesson the pupil should be able to; form algebraic expressions involving one unknown | -Forming algebraic expression  -Discussion on finding solutions of algebraic equations in one unknown | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 122 |  |
| 5 | ALGEBRA | Forming algebraic expressions | By the end of the lesson the pupil should be able to; form algebraic expressions involving one unknown | -forming algebraic expressions  -discussing examples | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 122 |  |
| 6 | ALGEBRA | Forming algebraic expressions | By the end of the lesson the pupil should be able to; form and work out algebraic expressions | -forming and working out algebraic expressions | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 123 |  |
| 7 | ALGEBRA | Forming algebraic expressions | By the end of the lesson the pupil should be able to; form and work out algebraic expressions | -forming and working out algebraic expressions | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 123 |  |
| 2 | 1 | ALGEBRA | Forming and simplifying algebraic expressions | By the end of the lesson the pupil should be able to; form and simplify algebraic expressions involving one unknown | -forming algebraic expressions  -simplifying algebraic expressions | Examples in Pupils book  chalkboard | Lets learn mathematics: pupil s bk 7 pg. 123 |  |
| 2 | ALGEBRA | Algebraic expressions | By the end of the lesson the pupil should be able to; find the value of algebraic expression through substitution | -discussing worked out examples  -solving a few questions | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 124 |  |
| 3 | ALGEBRA | Algebraic expressions | By the end of the lesson the pupil should be able to; find the value of algebraic expression through substitution | -revising previous work  -solving a few questions | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 124 |  |
| 4 | ALGEBRA | Algebraic expressions | By the end of the lesson the pupil should be able to; make further substitution on algebraic expressions | -substituting for unknowns in an algebraic expression ,evaluating the value of the expression given | Examples in Pupils book  chalkboard | Lets learn mathematics: pupil s bk 7 pg. 124 |  |
| 5 | ALGEBRA | ‘’ | By the end of the lesson the pupil should be able to make further substitution on algebraic expressions | '-substituting for unknowns in an algebraic expression ,evaluating the value of the expression given | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 125 |  |
| 6 | ALGEBRA | Forming and solving equations | By the end of the lesson the pupil should be able to form and solve equations | Demonstration  Asking and answering questions  Working out exercises | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 125 |  |
| 7 | ALGEBRA | ,, | By the end of the lesson the pupil should be able to form and solve equations in one uknown. | Demonstration  Working out exercises | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 1128 |  |
| 3 | 1 | ALGEBRA | Simplifying inequalities | By the end of the lesson the pupil should be able to simplify inequalities with one unknown. | Asking and answering questions  Working out exercises | Examples in Pupils book  chalkboard | Lets learn mathematics: pupil s bk 7 pg. 130 |  |
| 2 |  | ,, | By the end of the lesson the pupil should be able to simplify inequalities with one unknown. | Demonstration  Working out exercises | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 130 |  |
| 3 | TABLES AND GRAPHS | Arithmetic mean | By the end of the lesson the pupil should be able to work out the averages of given figure | Demonstration  Asking and answering questions  Working out exercises | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 213 |  |
| 4 | ,, | Mode | By the end of the lesson the pupil should be able to work out sums involving the mode. | Demonstration  Working out exercises | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 214 |  |
| 5 | ,, | Interpreting information | By the end of the lesson the pupil should be able to interpret information given in tables. | Asking and answering questions  Demonstration  Working out exercises | Graph books  Chalkboard | Lets learn mathematics: pupil s bk 7 pg. 199 |  |
| 6 | ,, | -Bar graphs | By the end of the lesson the pupil should be able to read and interpret bar graphs | Drawing graphs  Asking and answering questions  Working out exercises | Graph books  Chalkboard | Lets learn mathematics: pupil s bk 7 pg. 201 |  |
| 7 | ,, | ‘’ | By the end of the lesson the pupil should be able to read and interpret bar graphs. | Drawing graphs  Asking and answering questions  Working out exercises | Graph books  Chalkboard | Lets learn mathematics: pupil s bk 7 pg. 202 |  |
| 4 | 1 | TABLES AND GRAPHS | Line graphs | By the end of the lesson the pupil should be able toable to read and interpret linegraphs | Drawing graphs  Asking and answering questions  Working out exercises | Pencils, rulers, graph books | Lets learn mathematics: pupil s bk 7 pg. 204 |  |
| 2 | ,, | -Travel graphs | By the end of the lesson the pupil should be able to able to read and interpret travel grahs | Demonstration  Working out exercises | Pencils, rulers, graph books | Lets learn mathematics: pupil s bk 7 pg. 209 |  |
| 3 | ,, | -Pie charts | By the end of the lesson the pupil should be able to able to read and interpret pie charts | Drawing pie charts  Asking and answering questions  Working out exercises | Pencils, rulers, graph books | Lets learn mathematics: pupil s bk 7 pg. 212 |  |
| 4 | ‘’ | -Pie charts involving percentage | By the end of the lesson the pupil should be able to work out exercises on pie charts involving percentage | Drawing pie charts  Asking and answering questions  Working out exercises | Pencils, rulers, graph books | Lets learn mathematics: pupil s bk 7 pg. 214 |  |
| 5 | SCALE DRAWING | Linear scale | By the end of the lesson the pupil should be able to read and write scales in ratio forms. | Drawing pie charts  Asking and answering questions  Working out exercises | Pencils, rulers, graph books | Lets learn mathematics: pupil s bk 7 pg. 226 |  |
| 6 | ‘’ | Making scale drawing | By the end of the lesson the pupil should be able make scale drawings. | Drawing scales | Pencils, rulers, graph books | Lets learn mathematics: pupil s bk 7 pg. 227 |  |
| 7 | ‘’ | ,, | By the end of the lesson the pupil should be able to work out problems involving scale drawings | Demonstration  Working out exercises | Examples in Pupils book  chalkboard | Lets learn mathematics: pupil s bk 7 pg. 229 |  |
| 5 | 1 | RATIO AND PROPORTION | Ratio | By the end of the lesson the pupil should be able to recognize and identify ratio as a fraction. | Demonstration  Asking and answering questions  Working out exercises | Examples in Pupils book  chalkboard | Lets learn mathematics: pupil s bk 7 pg. 217 |  |
| 2 | ‘’ | Sharing as a ratio | By the end of the lesson the pupil should be able to interpret and use ratio in sharing. | Demonstration  Asking and answering questions  Working out exercises | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 218 |  |
| 3 | ‘’ | Decreasing and increasing ratio | By the end of the lesson the pupil should be able to interpret and use ratio in increasing and decreasing quantities. | ‘Demonstration  Asking and answering questions  Working out exercises | chalkboard | Lets learn mathematics: pupil s bk 7 pg. 219 |  |
| 4 | ‘’ | ,, | By the end of the lesson the pupil should be able to work out problems involving ratio. | Demonstration  Asking and answering questions  Working out exercises | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 222 |  |
| 5 | ‘’ | Direct proportion | By the end of the lesson the pupil should be able to recognize and identify simple direct proportion. | Demonstration  Asking and answering questions  Working out exercises | chalkboard | Lets learn mathematics: pupil s bk 7 pg. 223 |  |
| 6 | ‘’ | ,, | By the end of the lesson the pupil should be able to work out problems involving direct proportion. | Demonstration  Asking and answering questions  Working out exercises | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 224 |  |
| 7 | ‘’ | Indirect proportion | By the end of the lesson the pupil should be able to recognize and identify indirect proportion. | ‘Demonstration  Asking and answering questions  Working out exercises | chalkboard | Lets learn mathematics: pupil s bk 7 pg. 224 |  |
| 6 | 1 | RATIO AND PROPORTION | Indirect proportion | By the end of the lesson the pupil should be able to work out problems involving direct proportion. | Demonstration  Asking and answering questions  Working out exercises | Examples in Pupils book  chalkboard | Lets learn mathematics: pupil s bk 7 pg. 225 |  |
|  | 2 | REVISION EXERCISES | Ex. A | By the end of the lesson the pupil should be able to work out mixed exercise A and get at least TEN problems correct. | Demonstration  Asking and answering questions  Working out exercises | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 237 |  |
|  | 3 | ‘’ | Ex. B | By the end of the lesson the pupil should be able to work out mixed exercise B and get at leastTEN problems correct. | Asking and answering questions  Asking and answering questions  Working out exercises | chalkboard | Lets learn mathematics: pupil s bk 7 pg. 238 |  |
|  | 4 | ‘’ | Ex. C | By the end of the lesson the pupil should be able to work out mixed exercise C and get at least TEN problems correct. | Working out exercises  Asking and answering questions  Working out exercises | Examples in Pupils book | Lets learn mathematics: pupil s bk 7 pg. 241 |  |
|  | 5 | TEST PAPERS | Paper 1 | By the end of the lesson the pupil should be able todemonstrate ability by working out the test paper in pupils book ( no. 1-25) | Demonstration  Asking and answering questions  Working out exercises | Test paper in pupils text book | Lets learn mathematics: pupil s bk 7 pg. 244 |  |
|  | 6 | ‘’ | Paper 1 | By the end of the lesson the pupil should be able to demonstrate ability by working out the test paper in pupils book ( no. 26 - 50) | Demonstration  Asking and answering questions  Working out exercises | Test paper in pupils text book | Lets learn mathematics: pupil s bk 7 pg. 244 |  |
|  | 7 | ‘’ | Paper 2 | By the end of the lesson the pupil should be able to demonstrate ability by working out the test paper in pupils book ( no. 1-25) | Demonstration  Asking and answering questions  Working out exercises | Test paper in pupils text book | Lets learn mathematics: pupil s bk 7 pg. 250 |  |
| 7 | 1 | MIXED EXERCISES | Paper 2 | By the end of the lesson the pupil should be able to demonstrate ability by working out the test paper in pupils book ( no. 26 - 50) | Demonstration  Asking and answering questions  Working out exercises | Test paper in pupils text book | Lets learn mathematics: pupil s bk 7 pg. 250 |  |
| 2 | ‘’ | Paper 3 | By the end of the lesson the pupil should be able to demonstrate ability by working out the test paper in pupils book ( no. 1-25) | Demonstration  Working out exercises | Test paper in pupils text book | Lets learn mathematics: pupil s bk 7 pg. 257 |  |
| 3 | ‘’ | Paper 3 | By the end of the lesson the pupil should be able to demonstrate ability by working out the test paper in pupils book ( no. 26 - 50) | Asking and answering questions  Demonstration  Working out exercises | Test paper in pupils text book | Lets learn mathematics: pupil s bk 7 pg. 257 |  |
| 4 | ‘’ | Paper 4 | By the end of the lesson the pupil should be able to demonstrate ability by working out the test paper in pupils book ( no. 1-25) | Demonstration  Working out exercises | Test paper in pupils text book | Lets learn mathematics: pupil s bk 7 pg. 262 |  |
| 5 | ‘’ | Paper 4 | By the end of the lesson the pupil should be able to demonstrate ability by working out the test paper in pupils book ( no. 26 - 50) | Demonstration  Working out exercises | Test paper in pupils text book | Lets learn mathematics: pupil s bk 7 pg. 262 |  |
| 6 | ‘’ | Paper 5 | By the end of the lesson the pupil should be able to demonstrate ability by working out the test paper in pupils book ( no. 1-25) | Demonstration  Working out exercises | Test paper in pupils text book | Lets learn mathematics: pupil s bk 7 pg. 270 |  |
| 7 | ‘’ | Paper 5 | By the end of the lesson the pupil should be able to demonstrate ability by working out the test paper in pupils book ( no. 26 - 50) | Demonstration  Working out exercises | Test paper in pupils text book | Lets learn mathematics: pupil s bk 7 pg. 270 |  |
| 8 | **END YEAR EXAM, MARKING AND COMPILING EXAM RESULTS** | | | | | | | |