Lesson Plan

Subject	Mathematics
Class/ Section	Year 7 A to F
Week	12th September to 16th September
Work send to students by	Google classroom
Total number of lessons per week	5
Unit/Topic	2.2- Negative numbers 2.4- Squares and square roots 2.5- More powers and roots
Key Vocabulary	Square root
Lessons 1,2,3,4 &5 –Live Zoom lesson along with face to face instruction for students present on a particular day Work will be assigned in Google classroom which will be matched to the student's ability. Tasks/Activities	Specific Learning objectives ● Add, subtract, multiply and divide positive and negative numbers ● Use index notation for squares and square roots. ● Calculate with squares and square roots. ● Find the positive and negative square root of a square number ● Estimate square roots of non square numbers less than 100. Specific Intended Learning Outcome 　By the end of the lessons student will be able to: ● Add, subtract, multiply and divide positive and negative numbers. ● Understand index notation for squares and square roots. ● Calculate with squares and square roots. ● Find the positive and negative square root of a square number ● Estimate square roots of non square numbers less than 100. Ask students to call out the square numbers from 1^2 to 15^2 and list them (answers only) on the board. Explain that the square root is the inverse of a square number. Point at the square numbers (in order and then at random) and ask students to tell you the square root. Complete the questions assigned from the text book in The notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.

	Work out **a** $4^2 - 12$ **b** $3 + 9^2$ **c** $4 \times 3^2 + 5$ **d** $\dfrac{6^2}{4} - 15$ **e** $\sqrt{49} + 5 \times 8$ **f** $\dfrac{\sqrt{100}}{2} + 10^2$ --- Work out **a** $50 - 3^3$ **b** $4^3 + 6^2$ **c** $6 \times 2^3 - 18$ **d** $4 \times \sqrt[3]{1000} - 35$ **e** $\dfrac{20}{\sqrt[3]{125}} - 2^2$ Assessment objectives expected by the board with respect to the above question is listed below. AO1- Use and apply standard techniques AO2- Reason, interpret and communicate mathematically AO3- Interpret results in the context of the given problem.
Resources	• Text book questions and worksheet • PPT