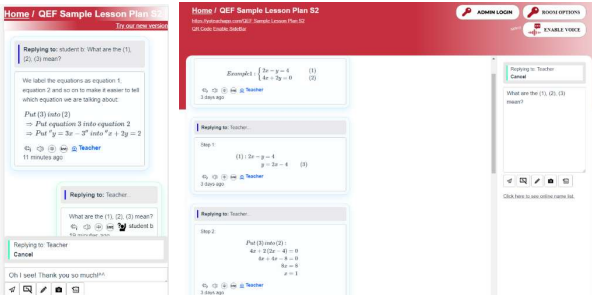




Junior Secondary Mathematics Curriculum (S1 – S3)

Learning Unit 9 – Linear Equations in Two Unknowns Active Learning Lesson Activity

Teacher's demonstration and explanation

| Teacher's Activity | Students' Activity |
|---|---|
| <p>Teacher:</p> <p>YoTeach! will be used as communication tool.</p> <p>Use Examples to perform the Substitution Method</p> <p>Example 1: $\begin{cases} 2x - y = 4 \\ 4x + 2y = 0 \end{cases}$ Solution: $x = 1, y = -2$</p> <p>Step 1. Label equation (1) and (2) Step 2. Change y as the subject of equation (1), label it as equation (3) Step 3. Put equation (3) in equation (2), find the value of x Step 4. Put $x = 1$ in equation (1), find the value of y</p>  <p>Example 2:</p> <p>After example 1 is done the teacher will ask students to solve the following system on their own:</p> $\begin{cases} 3x - y = 3 \\ x + 2y = 2 \end{cases}$ Solution: $x = \frac{8}{7}, y = \frac{3}{7}$ <p>Teacher will ask students to write down their solutions in YoTeach!.</p> <p>Teacher will check all the solutions of students, identify the correct answers, and go over closely which ones are incorrect.</p> | <p>Students:</p>  <p>https://yoteachapp.com/</p> <p>Enter the room by scanning the QR code and entering the pin: 84183862.</p> <p>Observe and work out according to teacher's demonstration.</p> <p>Students can ask questions through YoTeach!.</p>  |

初中數學課程（中一至中三）

學習單元 9 – 二元一次方程 主動學習課堂活動

老師的教學示範及解釋

| 老師的教學活動 | 學生的學習活動 |
|---|--|
| <p>老師：</p> <p>以 YoTeach! 作為渠道示範以代入法解聯立二元一次方程。</p> <p>以例題示範代入法</p> <p>例題 1 : $\begin{cases} 2x - y = 4 \\ 4x + 2y = 0 \end{cases}$ 解 : $x = 1, y = -2$</p> <p>步驟 1. 標示方程式 (1) 及 (2) 步驟 2. 令 y 成為方程式 (1) 的主項, 並標作方程式 (3) 步驟 3. 將方程式 (3) 代進方程式 (2), 以找出 x 的值 步驟 4. 將 $x = 1$ 代進方程式 (1), 以找出 y 的值</p>  <p>例題 2 :</p> <p>老師完成示範例題 1 後, 將要求學生嘗試解決以下聯立方程 :</p> $\begin{cases} 3x - y = 3 \\ x + 2y = 2 \end{cases}$ 解 : $x = \frac{8}{7}, y = \frac{3}{7}$ <p>老師會要求學生們在 YoTeach! 上寫下他們的答案。</p> <p>老師將會檢查學生們的所有答案, 檢視正確的答案, 並仔細檢查哪些答案不正確。</p> | <p>學生：</p>  <p>https://yoteachapp.com/</p> <p>掃描 QR 碼並輸入 PIN : 84183862 以進入房間</p> <p>觀察並根據老師的示範嘗試解答問題</p> <p>學生可以通過 YoTeach! 向老師提問</p>  |