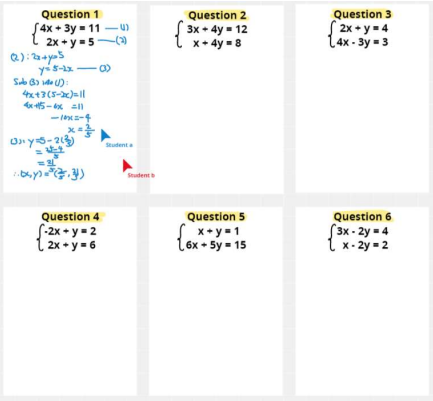




Junior Secondary Mathematics Curriculum (S1 – S3)

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

Active Learning Exercises for Students

Teacher's Activity	Students' Activity
<p>Collaborative Learning Activities</p> <p>Interactive Online Whiteboards (IOWB) will be used as communication tool.</p> <p>Teacher:</p> <p>Assign students in groups to solve the following simultaneous equations by the substitution method on the Interactive Online Whiteboards (IOWB).</p> <p>Group students into 6 groups. Students can observe the calculation procedures of other groups and counter check their answers after that.</p> <p>Solve the following simultaneous equations.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Question 1</p> $\begin{cases} 4x + 3y = 11 \\ 2x + y = 5 \end{cases}$ </div> <div style="text-align: center;"> <p>Question 2</p> $\begin{cases} 3x + 4y = 12 \\ x + 4y = 8 \end{cases}$ </div> <div style="text-align: center;"> <p>Question 3</p> $\begin{cases} 2x + y = 4 \\ 4x - 3y = 3 \end{cases}$ </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Question 4</p> $\begin{cases} -2x + y = 2 \\ 2x + y = 6 \end{cases}$ </div> <div style="text-align: center;"> <p>Question 5</p> $\begin{cases} x + y = 1 \\ 6x + 5y = 15 \end{cases}$ </div> <div style="text-align: center;"> <p>Question 6</p> $\begin{cases} 3x - 2y = 4 \\ x - 2y = 2 \end{cases}$ </div> </div> 	<p>Students:</p>  <p>https://app.conceptboard.com/board/f6ma-bace-uidk-t3od-7nut</p> <p>Enter the room by scanning the QR code.</p> <p>Actively engaging in discussion and working out the solution collaboratively using the Interactive Online Whiteboards (IOWB).</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

學生的主動學習練習

老師的教學活動	學生的學習活動
<p>協作學習活動</p> <p>以線上協作白板平台讓學生展示運算步驟。</p> <p>老師：</p> <p>學生將會分為 6 組，並請學生在線上協作白板平台上以代入法解下列的聯立方程。</p> <p>在協作學習活動中，學生們可以觀察其他小組的運算過程，並在寫下答案後核對其他組別的答案。</p> <p>以代入法解下列的聯立方程。</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>問題 1</p> $\begin{cases} 4x + 3y = 11 \\ 2x + y = 5 \end{cases}$ </div> <div style="text-align: center;"> <p>問題 2</p> $\begin{cases} 3x + 4y = 12 \\ x + 4y = 8 \end{cases}$ </div> <div style="text-align: center;"> <p>問題 3</p> $\begin{cases} 2x + y = 4 \\ 4x - 3y = 3 \end{cases}$ </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>問題 4</p> $\begin{cases} -2x + y = 2 \\ 2x + y = 6 \end{cases}$ </div> <div style="text-align: center;"> <p>問題 5</p> $\begin{cases} x + y = 1 \\ 6x + 5y = 15 \end{cases}$ </div> <div style="text-align: center;"> <p>問題 6</p> $\begin{cases} 3x - 2y = 4 \\ x - 2y = 2 \end{cases}$ </div> </div> 	<p>學生：</p>  <p>https://app.conceptboard.com/board/f6ma-bace-uidk-t3od-7nut</p> <p>掃描 QR 碼以進入房間</p> <p>積極參與討論並共同在線上協作白板平台上解題</p> <p>學生可以通過 YoTeach! 向老師提問</p> 