


LESSON PLAN

Year 6: Number

 45 MINS

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General Outcome:

- Solve number and practical problems that involve addition and subtraction.

Specific Outcomes:

- Add and subtract numbers using mental strategies and known facts.
- Select appropriate problem solving methods.

Starter

 10 MINS

Play Dr Marion Small's video "**Pyramid Prediction**" in Lesson "**Year 6: Number**". This video has two parts, Part 1 and Part 2. Play Part 1 of the video, stopping at each question to have a student discussion. Play Part 2 of the video and pause for students to investigate and calculate possible patterns.

To support learning, ask students:

- What happens if you add 1 to each number in the bottom row?
- What happens to total at the top?
- Can you explain why?

To extend learning, ask students:

- What is happening in this row/ section of the pyramid?
- How can you find the pattern rule?
- Can you determine what the top number would be without filling in the other rows?

ITEMS NEEDED

- ✓ Interactive whiteboard
- ✓ Mathletics teacher login
- ✓ Computers/tablets
- ✓ Marian Small's Pyramid Prediction worksheet
- ✓ Maths books/blank paper

ASSESSMENTS

- ✓ Observation and participation
- ✓ Reviewing completed "Pyramid Prediction" student worksheet
- ✓ Reporting results within the Teacher Console of Mathletics for curriculum

ACCOMMODATIONS/ MODIFICATIONS

- ✓ Provide manipulatives.
- ✓ Encourage students to click on "Something Easier" and "Something Harder" within Mathletics curriculum activities.
- ✓ Teacher can work with a small group of students.

EXTENSION OF LEARNING

- ✓ Rainforest Maths activities within Year 5, Pattern
- ✓ Curriculum activities
- ✓ Live Mathletics Levels 4 and 5

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Mathletics

Teaching/ Main Activity

 30 MINS

Display "**Pyramid Prediction**" interactive on the interactive whiteboard. Ask students to choose the numbers to put in the bottom row. Click on the connector boxes to reveal the next row.

Ask students:

- What has happened to the number?
- What rule or pattern can you identify?
- Can you predict what the next row of numbers will be?
- Can we predict the number at the top of the pyramid?
- How do you know this?

Provide students with the "**Pyramid Prediction**" printable resource in Lessons, "Year 6: Number". Work with an identified group to scaffold learning and observe problem solving strategies. Ask students to complete three different pyramids using the worksheet and ask them to explain their steps in completing the question. Children working independently can do this by writing the steps. Throughout the session, use mini plenaries to stop students and remind them to predict what the top number will be, and record this prediction using a coloured pen. Support students through questioning. For further information on how to scaffold this activity please refer to the Teacher Notes found in **Teacher Console > ebooks > Year 5 > Pyramid Prediction**.

Reinforcement:

Ask students to search "Table of Values" using concept search in Mathletics. Ask students to investigate this concept and its similarities and differences to Pyramid Prediction.

Plenary

 5 MINS

Live Maths

Ask students to log in to Mathletics and ensure to turn assigned tasks off. Ask students to play Live Mathletics against members of their class/ the world. Award "Top Live Mathlete of the Day" for the student who has received the greatest number of points.



For more information contact our team...

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