



Introduction (5 minutes)

Welcome to the world of perimeters and areas! In this worksheet, we will explore the concepts of perimeters and areas, and how they are used in real-world applications. We will also discuss the importance of effective feedback in mastering these concepts.

Understanding Perimeters and Areas (15 minutes)

Perimeter is the distance around a shape. It is calculated by adding up the lengths of all its sides. Area is the amount of space inside a shape. It is calculated by multiplying the length and width of the shape.

1. What is the formula for calculating perimeter?

2. What is the formula for calculating area?

Calculating Perimeters and Areas (20 minutes)

Calculate the perimeter and area of a rectangle with a length of 6 cm and a width of 4 cm.

Group Task:
Work in pairs to calculate the perimeter and area of the given rectangle.

Length	Width	Perimeter	Area
6 cm	4 cm		

Real-World Applications (15 minutes)

Perimeters and areas are used in architecture, engineering, and design. They are used to calculate the amount of materials needed for a project.

Effective Feedback (10 minutes)

Feedback is essential in mastering perimeters and areas. It helps students identify areas where they need improvement and builds confidence.

Individual Reflection:

1. What did you learn about perimeters and areas today?

2. What challenges did you face, and how did you overcome them?

Mixed Ability Differentiation (15 minutes)

For students who need extra support, provide visual aids and step-by-step instructions. For students who need a challenge, provide more complex problems and encourage them to apply mathematical concepts to real-world situations.

Group Task:

Work in groups to complete the following tasks:

1. Foundation: Calculate the perimeter and area of a rectangle with a length of 8 cm and a width of 5 cm.
2. Core: Calculate the perimeter and area of a triangle with a base of 5 cm and a height of 6 cm.
3. Extension: Research and present on the applications of perimeters and areas in different industries.

Activities and Questions (20 minutes)

Complete the following activities and questions:

1. Calculate the perimeter and area of a rectangle with a length of 8 cm and a width of 5 cm.

2. A garden has a perimeter of 20 meters. If the length is 6 meters, what is the width?

3. A room has an area of 24 square meters. If the length is 4 meters, what is the width?

Conclusion (10 minutes)

In conclusion, perimeters and areas are essential concepts in mathematics that have numerous real-world applications. Effective feedback is crucial in mastering these concepts, and mixed ability differentiation is essential in meeting the diverse needs of students.

Assessment (15 minutes)

Complete the activities and questions provided in this worksheet. Reflect on your learning and identify areas where you need improvement. Provide feedback to your peers on their work and encourage them to do the same.

Individual Reflection:

1. What did you learn about perimeters and areas in this worksheet?

2. What challenges did you face, and how did you overcome them?

Extension (15 minutes)

Research and present on the applications of perimeters and areas in different industries. Create a math game or simulation that involves perimeters and areas. Design and calculate the perimeter and area of a real-world project, such as a garden or a room.

Group Task:

Work in groups to complete the following tasks:

1. Research and present on the applications of perimeters and areas in different industries.
2. Create a math game or simulation that involves perimeters and areas.
3. Design and calculate the perimeter and area of a real-world project, such as a garden or a room.

