

**Mathematics**

**Unit 1: Geometry**

**Lesson 1: Area and Perimeter**

**Area**

The area of a rectangle is calculated by multiplying its length by its width.

$$\text{Area} = \text{Length} \times \text{Width}$$

**Perimeter**

The perimeter of a rectangle is calculated by adding all four sides together.

$$\text{Perimeter} = 2 \times (\text{Length} + \text{Width})$$

**Example 1:** A rectangle has a length of 5 units and a width of 3 units. Calculate its area and perimeter.

**Solution:**

Area:  $5 \times 3 = 15$  square units

Perimeter:  $2 \times (5 + 3) = 16$  units

**Example 2:** A rectangle has a perimeter of 20 units and a length of 6 units. Calculate its width and area.

**Solution:**

Perimeter:  $20 = 2 \times (6 + \text{Width})$

$10 = 6 + \text{Width}$

$\text{Width} = 4$  units

Area:  $6 \times 4 = 24$  square units

**Homework:**

1. A rectangle has a length of 8 units and a width of 4 units. Calculate its area and perimeter.

2. A rectangle has a perimeter of 18 units and a width of 3 units. Calculate its length and area.

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**Unit 2: Algebra**

**Lesson 1: Linear Equations**

**Linear Equations**

A linear equation is an equation in which the highest power of the variable is 1.

**Example 1:** Solve the equation  $2x + 5 = 11$ .

**Solution:**

$2x + 5 = 11$

$2x = 11 - 5$

$2x = 6$

$x = 3$

**Example 2:** Solve the equation  $3y - 7 = 14$ .

**Solution:**

$3y - 7 = 14$

$3y = 14 + 7$

$3y = 21$

$y = 7$

**Homework:**

1. Solve the equation  $4x + 3 = 15$ .

2. Solve the equation  $5y - 2 = 18$ .

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**Unit 3: Calculus**

**Lesson 1: Differentiation**

**Differentiation**

Differentiation is the process of finding the derivative of a function.

**Example 1:** Find the derivative of  $y = x^2 + 3x + 5$ .

**Solution:**

$\frac{dy}{dx} = 2x + 3$

**Example 2:** Find the derivative of  $y = \sin(x)$ .

**Solution:**

$\frac{dy}{dx} = \cos(x)$

**Homework:**

1. Find the derivative of  $y = x^3 + 2x^2 - 5x + 7$ .

2. Find the derivative of  $y = \cos(x)$ .

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**Unit 4: Trigonometry**

**Lesson 1: Trigonometric Functions**

**Trigonometric Functions**

Trigonometric functions are functions that relate the angles of a triangle to the lengths of its sides.

**Example 1:** In a right-angled triangle, the angle is  $30^\circ$  and the hypotenuse is 10 units. Calculate the length of the side opposite the angle.

**Solution:**

$\sin(30^\circ) = \frac{\text{Opposite}}{\text{Hypotenuse}}$

$\sin(30^\circ) = \frac{x}{10}$

$x = 10 \sin(30^\circ)$

$x = 10 \times 0.5$

$x = 5$  units

**Example 2:** In a right-angled triangle, the angle is  $45^\circ$  and the adjacent side is 8 units. Calculate the length of the hypotenuse.

**Solution:**

$\cos(45^\circ) = \frac{\text{Adjacent}}{\text{Hypotenuse}}$

$\cos(45^\circ) = \frac{8}{x}$

$x = \frac{8}{\cos(45^\circ)}$

$x = \frac{8}{0.707}$

$x \approx 11.3$  units

**Homework:**

1. In a right-angled triangle, the angle is  $60^\circ$  and the hypotenuse is 12 units. Calculate the length of the side adjacent to the angle.

2. In a right-angled triangle, the angle is  $30^\circ$  and the adjacent side is 6 units. Calculate the length of the hypotenuse.

**Mathematics**

# Pixl Aqa Maths Predicted Paper

**Lauren Gardner**



## **Pixl Aqa Maths Predicted Paper:**

The Top Books of the Year Pixl Aqa Maths Predicted Paper The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. Pixl Aqa Maths Predicted Paper : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Pixl Aqa Maths Predicted Paper : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://crm.avenza.com/files/publication/HomePages/nln%20nace%20study%20guide.pdf>

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