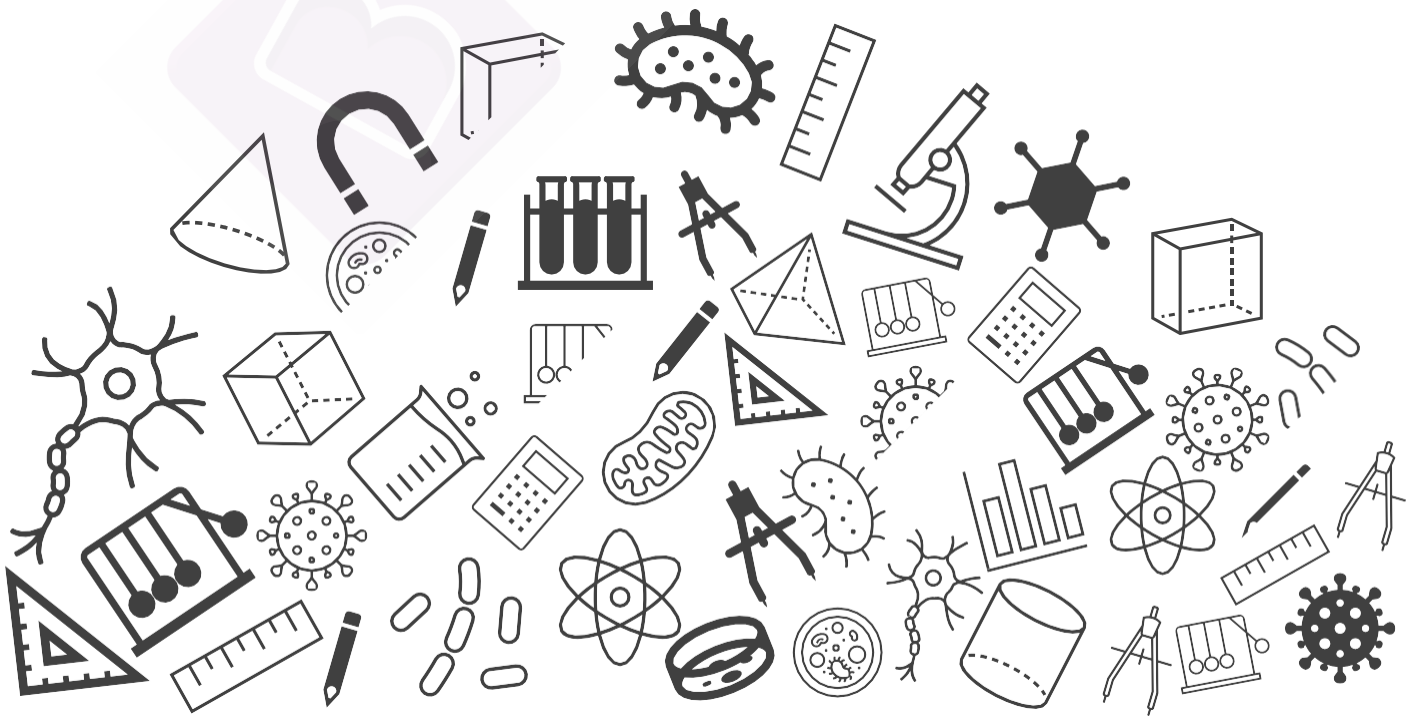
Grade 07: Maths
Chapter Notes

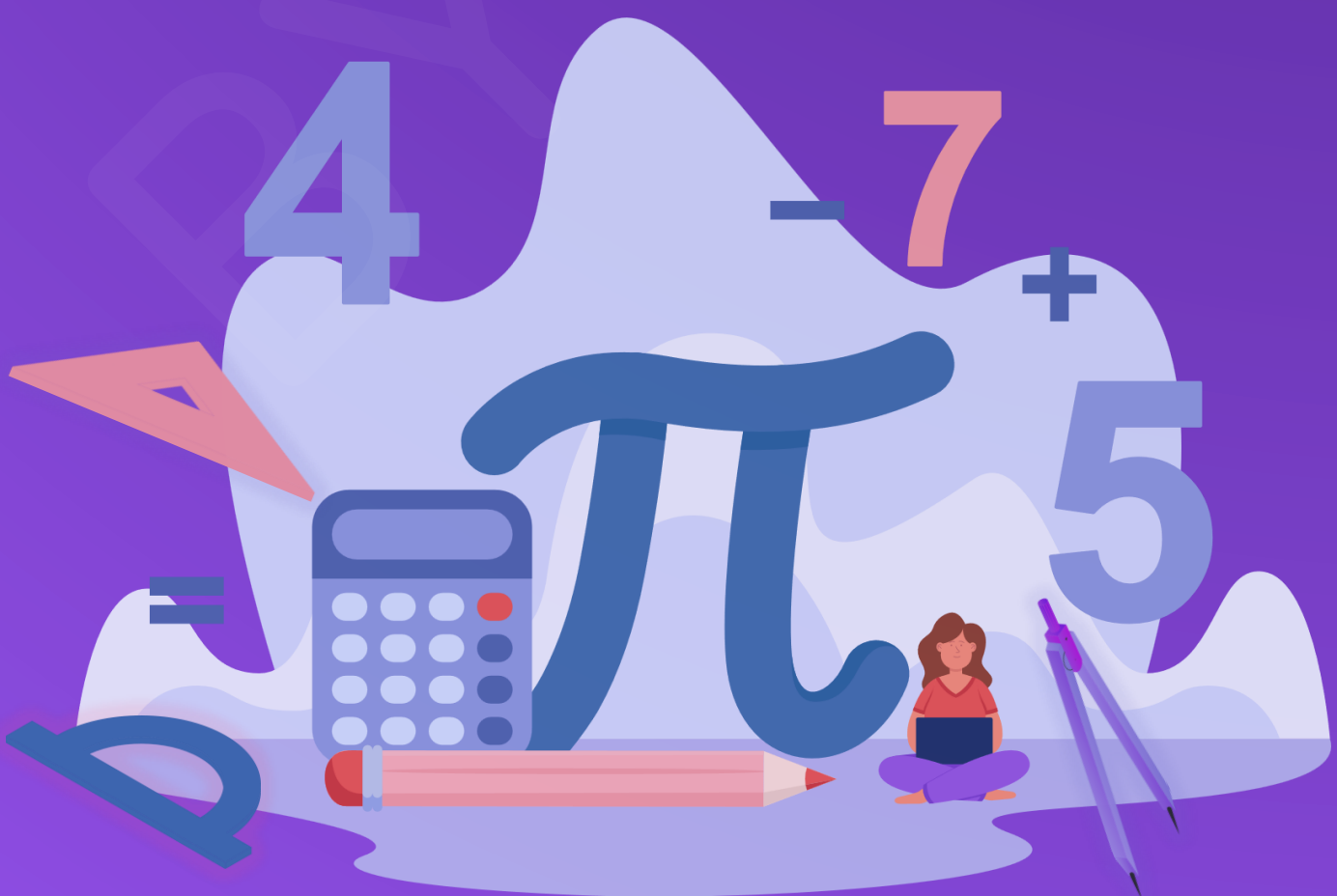


BYJU'S Classes

Chapter Notes

Perimeter and Area

Grade 07



Topics to be Covered

1. Parallelogram

- 1.1. Area of a parallelogram

2. Triangle

- 2.1. Area of a triangle
- 2.2. Triangle as parts of a rectangle

3. Circle

- 3.1. Circumference of a circle
- 3.2. Area of a circle

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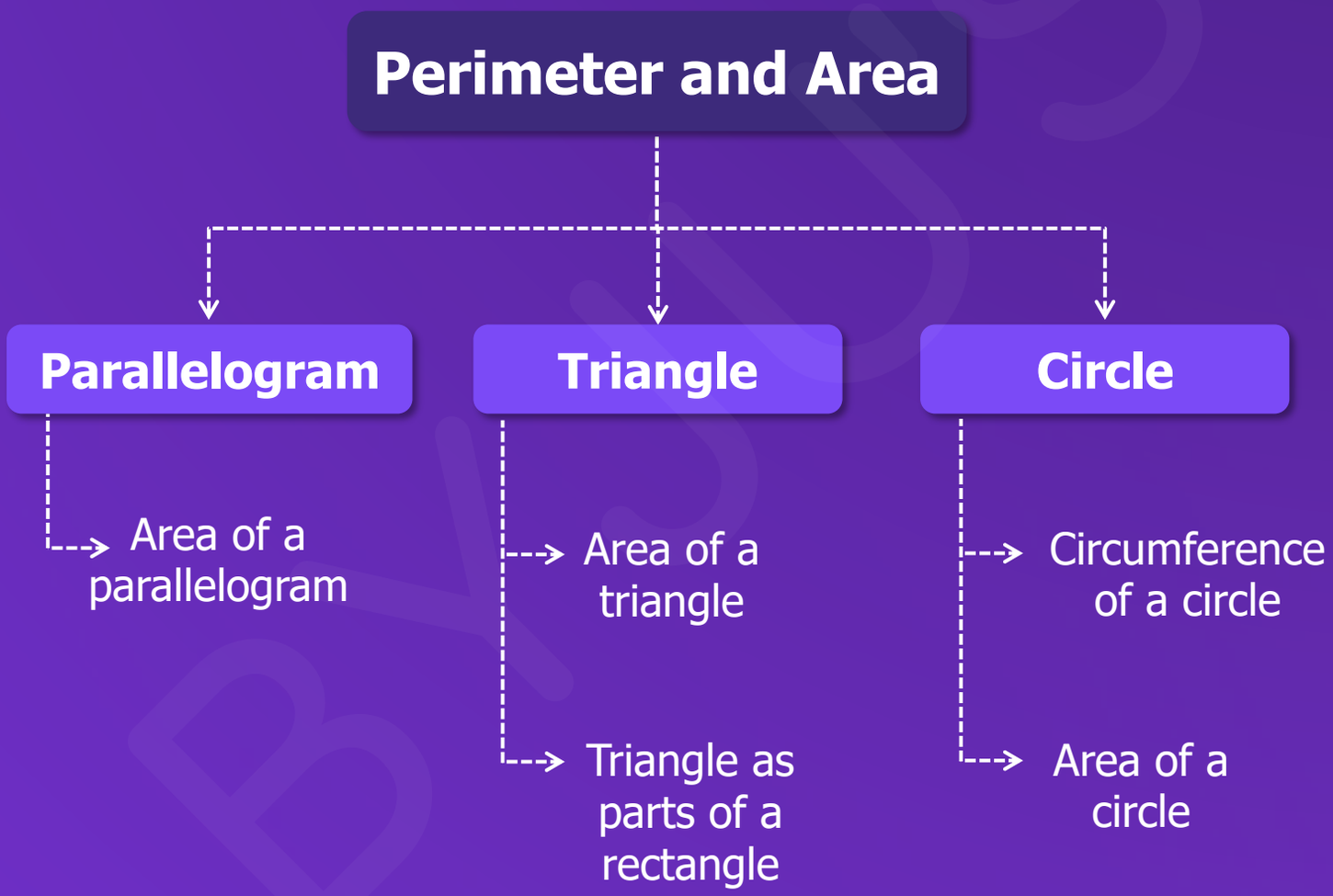
Mind Map


Perimeter and Area
Parallelogram
Triangle
Circle
Area of a parallelogram
Area of a triangle
Triangle as parts of a rectangle
Circumference of a circle
Area of a circle

1. Parallelogram

1.1. Area of a parallelogram

Parallelogram converted to a Rectangle

Area of a parallelogram = Area of a rectangle
= SP × PQ
= DE × AB
= Height(h) × Corresponding Base(b)

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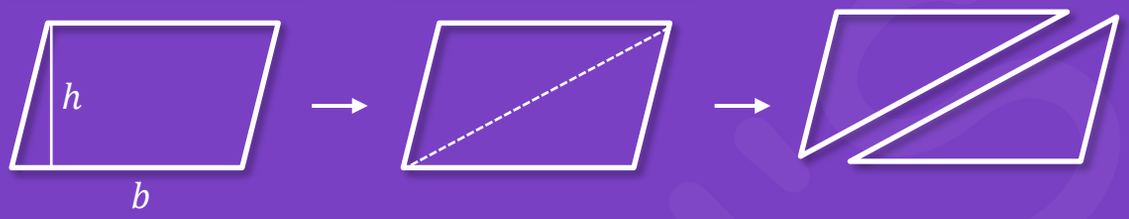
2. Triangle

2.1. Area of a triangle

Parallelogram → **Parallelogram** → **Triangle**

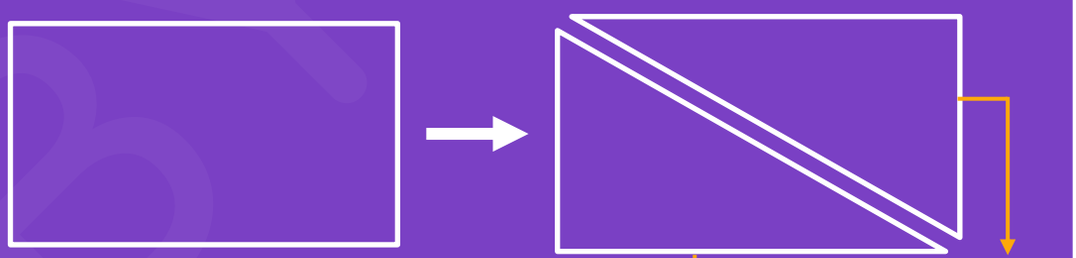


Area $= b \times h$

Diagonal divides it into two triangles of equal area

Area $= \frac{1}{2} \times b \times h$

2.2. Triangle as parts of rectangle



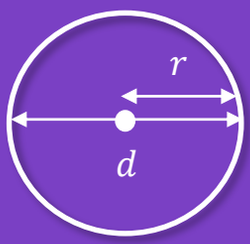
Same size
Congruent
Equal area

Area of a triangle $= \frac{1}{2} \times$ (Area of a rectangle)

$= \frac{1}{2} \times$ (length $\times$ breadth)

3. Circle

3.1. Circumference of a Circle



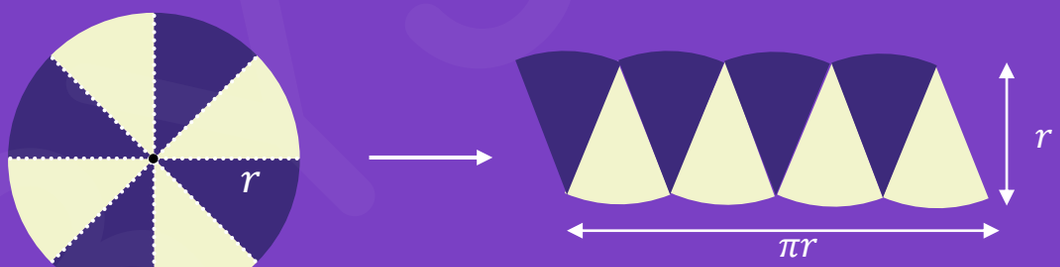
Circumference of a circle is its perimeter.

Circumference $= \pi \times d$

$= \pi \times 2\,(r)$

$= 2\,\pi\,r$

3.2. Area of a Circle



Circle converted to a rough rectangle

[The more sectors we have, the nearer we reach an appropriate rectangle]

Area of a circle $= \pi r \times r$

$= \pi r^2$

$= \pi \times (\text{radius})^2$