BYJU'S

Grade 09
Mathematics Chapter Notes

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**CHAPTER NOTES**
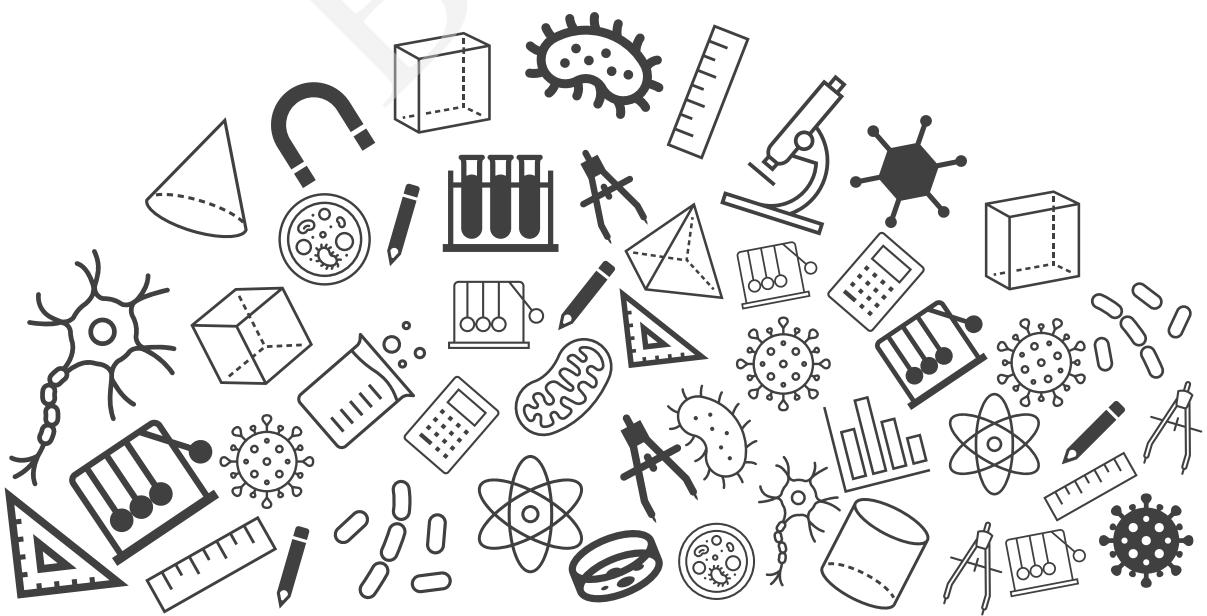
Surface Areas and Volumes

Topics

1. Surface Areas and Volume of Cone

2. Surface Area and Volume of Sphere

3. Surface Areas and Volume of Hemisphere

Surface Areas and Volumes

Cone

$l = \sqrt{h^2 + h^2}$

h

r
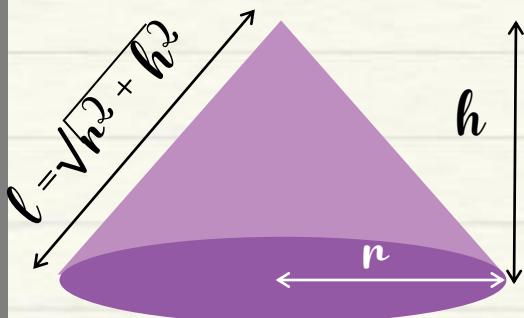
$\pi r l$	Curved surface area
$\pi r l + \pi r^2$	Total surface area
$\frac{1}{3}\pi r^2 h$	Volume

Sphere

r
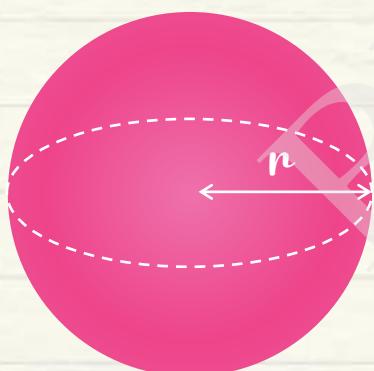
$4\pi r^2$	Curved surface area
$\frac{4}{3}\pi r^3$	Volume

Hemisphere

Curved surface area	$2\pi r^2$
Total surface area	$3\pi r^2$
Volume	$\frac{2}{3}\pi r^3$

r
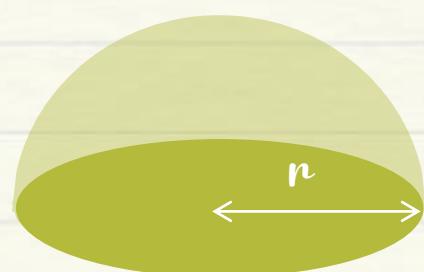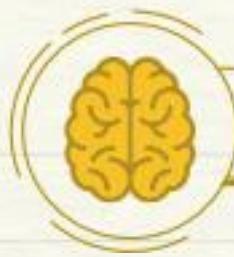
Cone

Sphere

Surface Areas and Volumes

Hemisphere