

# Escape Velocity

## Module: Advanced Mechanics

### Table of contents

|                            |   |
|----------------------------|---|
| Overview . . . . .         | 1 |
| Core Ideas . . . . .       | 1 |
| Key Formulas . . . . .     | 1 |
| Exam Focus . . . . .       | 1 |
| Related Concepts . . . . . | 2 |

### Overview

$v = \sqrt{2GM/r}$

### Core Ideas

- Define the concept in your own words.
- Identify the key variables and relationships.
- Connect the concept to the module inquiry question.

### Key Formulas

- **Escape Velocity:**

$$v_{esc} = \sqrt{\frac{2GM}{r}}$$

### Exam Focus

- Expect both multiple choice and short answer questions.
- Show working and use correct units.

## **Related Concepts**

- Review the linked module section for context and extensions.