

DIGITAL PRODUCT

CAIE IGCSE PHYSICS

Conduction	Convection	Radiation
Thermal conductors transfer heat by particles	Fluids (liquids and gases) transfer heat by convection currents	Electromagnetic waves transfer heat by radiation
Through movement and vibration of particles	Fluids with more energy move faster	It depends on temperature, colour, surface area and texture
Ex: Metals, Foams	Ex: Radiators, Boilers	Ex: Vacuum of space

Radiation: Colour and Texture

- Dark/black surfaces are good absorbers and emitters of heat
- Shiny/white surfaces are good reflectors (bad emitters and absorbers) of heat

Radiation: Temperature and Surface Area

Temperature is the same as Energy radiated

3. # Sound

- Longitudinal waves produced by vibrating sources are known as sound waves. Sound waves require a medium to be transmitted (such as air).
- Compressions: high pressure, rarefactions: low pressure
- Loudness depends on the frequency, amplitude and distance from the source.
- The louder a sound wave is, the greater its amplitude.
- The higher the pitch of a sound wave, the higher its frequency.
- An echo is a reflection of sound waves.
- (Echo) is a reflection of sound waves.
- (Echo) is a reflection of sound waves.
- (Echo) is a reflection of sound waves.

Sound speed = distance / time

CAIE IGCSE PHYSICS

1. Motions, Forces and Energy

1.1. Physical quantities and measurement techniques

Using measurements (equipment)

- Length: Measuring Cylinder
- Time: Stopwatch
- Mass: Top pan balance
- Temperature: Thermometer
- Force: Spring balance
- Pressure: Manometer
- Speed: Stopwatch and measuring tape
- Acceleration: Stopwatch and measuring tape
- Velocity: Stopwatch and measuring tape
- Displacement: Stopwatch and measuring tape
- Energy: Stopwatch and measuring tape
- Power: Stopwatch and measuring tape
- Momentum: Stopwatch and measuring tape
- Impulse: Stopwatch and measuring tape
- Work: Stopwatch and measuring tape
- Heat: Stopwatch and measuring tape
- Temperature: Thermometer
- Mass: Top pan balance
- Length: Measuring Cylinder
- Time: Stopwatch
- Mass: Top pan balance
- Temperature: Thermometer
- Force: Spring balance
- Pressure: Manometer
- Speed: Stopwatch and measuring tape
- Acceleration: Stopwatch and measuring tape
- Velocity: Stopwatch and measuring tape
- Displacement: Stopwatch and measuring tape
- Energy: Stopwatch and measuring tape
- Power: Stopwatch and measuring tape
- Momentum: Stopwatch and measuring tape
- Impulse: Stopwatch and measuring tape
- Work: Stopwatch and measuring tape
- Heat: Stopwatch and measuring tape

Vectors and Scalars

Scalar: has magnitude only
e.g. distance, speed, time, mass, energy and temperature

Vector: has magnitude and direction
e.g. force, weight, velocity, acceleration, momentum, electric field strength and gravitational field strength

1.2. Motion

Speed-time graphs

Speed is defined as the distance travelled per unit time.

Graphs of speed against time:

- A horizontal line indicates constant speed.
- A straight line starting from the origin indicates constant acceleration.
- A curve starting from the origin indicates increasing acceleration.
- A curve starting from the origin and leveling off indicates decreasing acceleration.

Distance-time graphs

Distance is defined as the speed multiplied by time.

Graphs of distance against time:

- A horizontal line indicates the object is stationary.
- A straight line starting from the origin indicates constant speed.
- A curve starting from the origin indicates increasing speed.
- A curve starting from the origin and leveling off indicates decreasing speed.

Acceleration

Acceleration is defined as the change in velocity per unit of time.

Graphs of acceleration against time:

- A horizontal line indicates constant acceleration.
- A straight line starting from the origin indicates increasing acceleration.
- A curve starting from the origin indicates decreasing acceleration.

Terminal Velocity

Acceleration of free fall for an object near to the surface of the Earth is constant and is approximately 9.8 m/s².

At the beginning of the fall, the acceleration will not give the object its terminal velocity. This is because the air resistance is not large enough to balance the weight.

IGCSE PHYSICS REVISION NOTES (THEORY)



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Table of Contents Igcse Physics Revision Notes 2015

1. Understanding the eBook Igcse Physics Revision Notes 2015
 - The Rise of Digital Reading Igcse Physics Revision Notes 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Physics Revision Notes 2015
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Igcse Physics Revision Notes 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Physics Revision Notes 2015
 - Personalized Recommendations
 - Igcse Physics Revision Notes 2015 User Reviews and Ratings
 - Igcse Physics Revision Notes 2015 and Bestseller Lists
5. Accessing Igcse Physics Revision Notes 2015 Free and Paid eBooks
 - Igcse Physics Revision Notes 2015 Public Domain eBooks
 - Igcse Physics Revision Notes 2015 eBook Subscription Services
 - Igcse Physics Revision Notes 2015 Budget-Friendly Options

6. Navigating Igcse Physics Revision Notes 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Igcse Physics Revision Notes 2015 Compatibility with Devices
 - Igcse Physics Revision Notes 2015 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Igcse Physics Revision Notes 2015
 - Highlighting and Note-Taking Igcse Physics Revision Notes 2015
 - Interactive Elements Igcse Physics Revision Notes 2015
8. Staying Engaged with Igcse Physics Revision Notes 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Igcse Physics Revision Notes 2015
9. Balancing eBooks and Physical Books Igcse Physics Revision Notes 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Igcse Physics Revision Notes 2015
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Igcse Physics Revision Notes 2015
 - Setting Reading Goals Igcse Physics Revision Notes 2015
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Igcse Physics Revision Notes 2015
 - Fact-Checking eBook Content of Igcse Physics Revision Notes 2015
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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