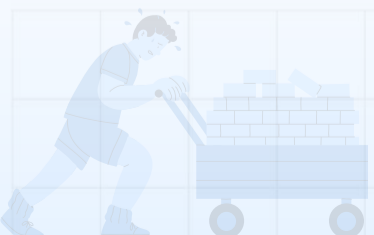


Energy

- Energy is the **ability to do work**
- SI unit of energy is **Joule**
- **Potential energy** = $m g h$
- **Kinetic energy** = $\frac{1}{2} m v^2$
- **Work-energy theorem:** Work = Change in KE
- **Power** = Energy / Time
- Light, heat, sound, chemical, nuclear, mechanical energy forms
- Renewable vs non-renewable sources
- **Law of conservation:** Energy cannot be created or destroyed
- **Electricity converts easily** into other forms
- Heat is **caused by molecular motion**
- Sound needs a **medium to travel**
- Nuclear energy comes from **atomic nuclei**
- Chemical energy is **stored in food and fuels**


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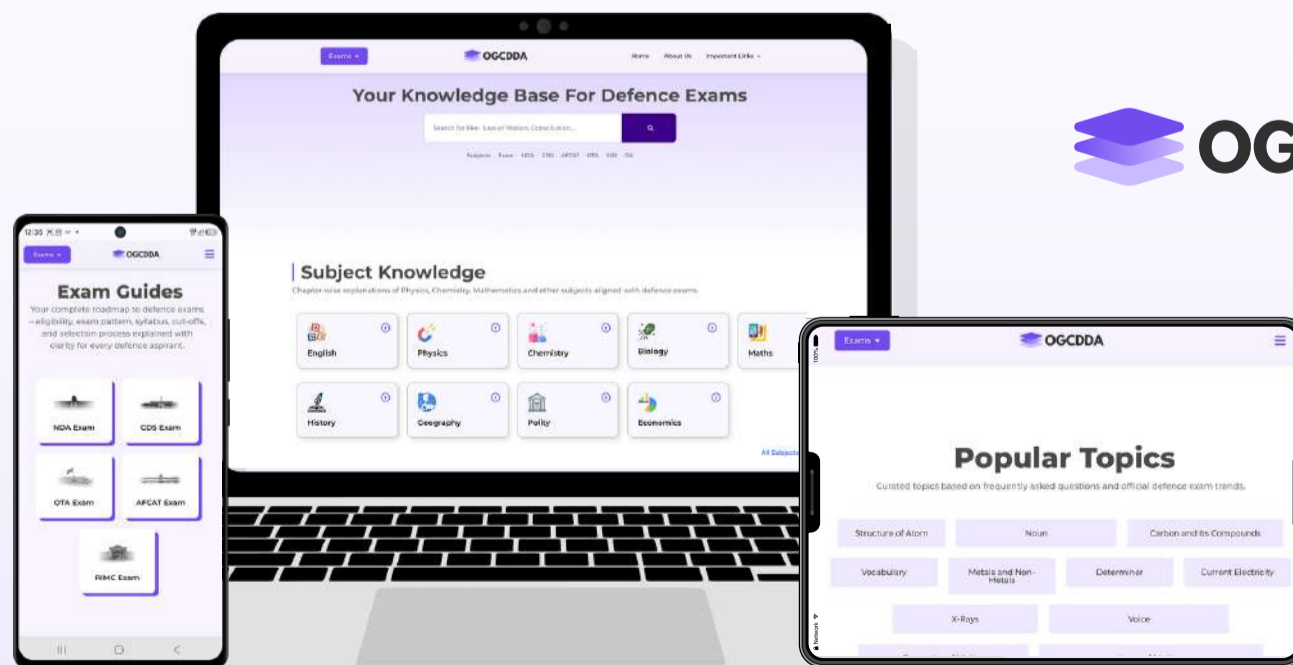
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The image displays the OGCDDA website interface across three devices: a laptop, a tablet, and a smartphone. The laptop screen shows the main page with the heading "Your Knowledge Base For Defence Exams" and a search bar. Below the search bar, there is a "Subject Knowledge" section with a grid of subject buttons: English, Physics, Chemistry, Biology, Maths, History, Geography, Polity, and Economics. The tablet screen shows the "Exam Guides" section, listing NDA Exam, CDS Exam, OTA Exam, AFCAT Exam, and RIMC Exam. The smartphone screen shows the "Popular Topics" section, listing various topics like Structure of Atom, Noun, Carbon and its Compounds, Vocabulary, Metals and Non-Metals, Determiner, Current Electricity, X-Rays, and Voice. The OGCDDA logo is visible in the top right corner of the laptop screen.

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