

Nuclear Physics

Question Paper

Level	Pre U
Subject	Physics
Exam Board	Cambridge International Examinations
Topic	Nuclear Physics
Booklet	Question Paper

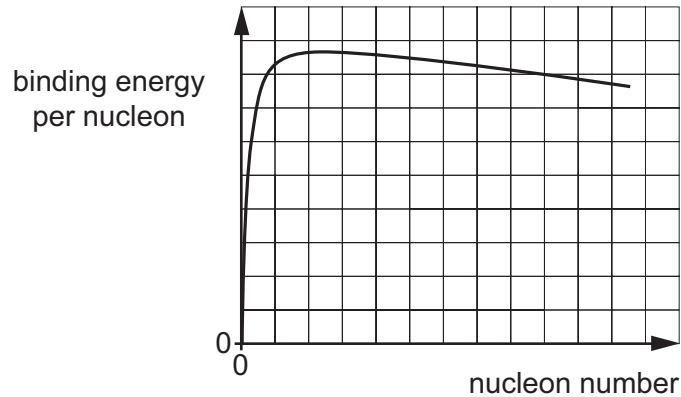
Time Allowed: 3 minutes

Score: /2

Percentage: /100

Grade Boundaries:

- 1 The graph shows the binding energy per nucleon of nuclear particles plotted against their nucleon number.



Which statement can be deduced from the shape of the graph?

- A For very high nucleon number particles, fission requires the input of energy.
 - B For very high nucleon number particles, fusion releases energy.
 - C For very high nucleon number particles, fission releases energy.
 - D For very low nucleon number particles, fission releases energy.
- 2 Into which three fundamental families does the standard model classify matter?
- A force carriers, hadrons and leptons
 - B force carriers, hadrons and quarks
 - C force carriers, leptons and quarks
 - D hadrons, leptons and quarks

Space for working