

Nuclear physics

IGCSE Physics · Vocabulary

Write each word 3 times.

English	Write it 3 times (English)
 atom /ˈætəm/	
 nucleus /ˈnjuːkliəs/	
 electron /ɪˈlektɹən/	
 orbit /ˈɔːbɪt/	
 charge /tʃɑːdʒ/	
 mass /mæs/	
 ion /ˈaɪən/	
 alpha particle /ˈælfə ˈpɑːtɪkl/	α
 gold foil /gəʊld fɔɪl/	
 scattering /ˈskætərɪŋ/	
 deflected /dɪˈflektɪd/	
 nucleon /ˈnjuːklɪən/	
 proton /ˈprəʊtɒn/	
 relative /ˈrelətɪv/	
 neutron /ˈnjuːtrɒn/	

English**Write it 3 times** (English)

proton number

/'prəʊtɒn 'nʌmbə/

 Σ nucleon number

/'nju:klɪən 'nʌmbə/

 nuclide

/'nju:klaɪd/

 isotope

/'aɪsətəʊp/

 nuclear fission

/'nju:klɪə 'fɪʃn/

 energy

/'enədʒi/

 nuclear fusion

/'nju:klɪə 'fju:ʒn/

 hydrogen

/'haɪdrədʒn/

 helium

/'hi:lɪəm/

 unstable

/ʌn'steɪbl/

 radiation

/ˌreɪdɪ'eɪʃn/

 radioactive

/ˌreɪdɪəʊ'æktɪv/

 decay

/dɪ'keɪ/

 spontaneous

/spɒn'teɪniəs/

 random

/'rændəm/

 background
radiation

/'bækgraʊnd ˌreɪdɪ'eɪʃn/

 radon

/'reɪdɒn/

English

Write it 3 times (English)



cosmic rays

/ˈkɒzmɪk reɪz/



detector

/dɪˈtektə/



counter

/ˈkaʊntə/



count rate

/kaʊnt reɪt/



corrected

/kəˈrektɪd/



ionising

/ˈaɪənaɪzɪŋ/



aluminium

/ˌæljʊˈmɪniəm/



electromagnetic
wave

/ɪˌlektərəmægˈnetɪk weɪv/



lead

/liːd/



penetrating

/ˈpenɪtreɪtɪŋ/



absorbed

/əbˈsɔːbd/



beta particle

/ˈbiːtə ˈpɑːtɪkl/

β



gamma radiation

/ˈɡæmə ˌreɪdɪˈeɪʃn/

γ



kinetic energy

/kɪˈnetɪk ˈenədʒi/



electric field

/ɪˈlektɪk fiːld/



magnetic field

/mægˈnetɪk fiːld/



stable

/ˈsteɪbl/

English**Write it 3 times** (English)



sample

/'sæmpl/



half-life

/hɑ:f laɪf/



smoke alarm

/sməʊk ə'la:m/



bacteria

/bæk'tɪəriə/



sterilise

/'sterəlaɪz/



medical tracer

/'medɪkl 'treɪsə/



cancer

/'kænsə/



living cells

/'lɪvɪŋ selz/



mutation

/mju:'teɪʃn/



dose

/dəʊs/



exposure

/ek'spəʊʒə/



shielding

/'ʃi:ldɪŋ/
