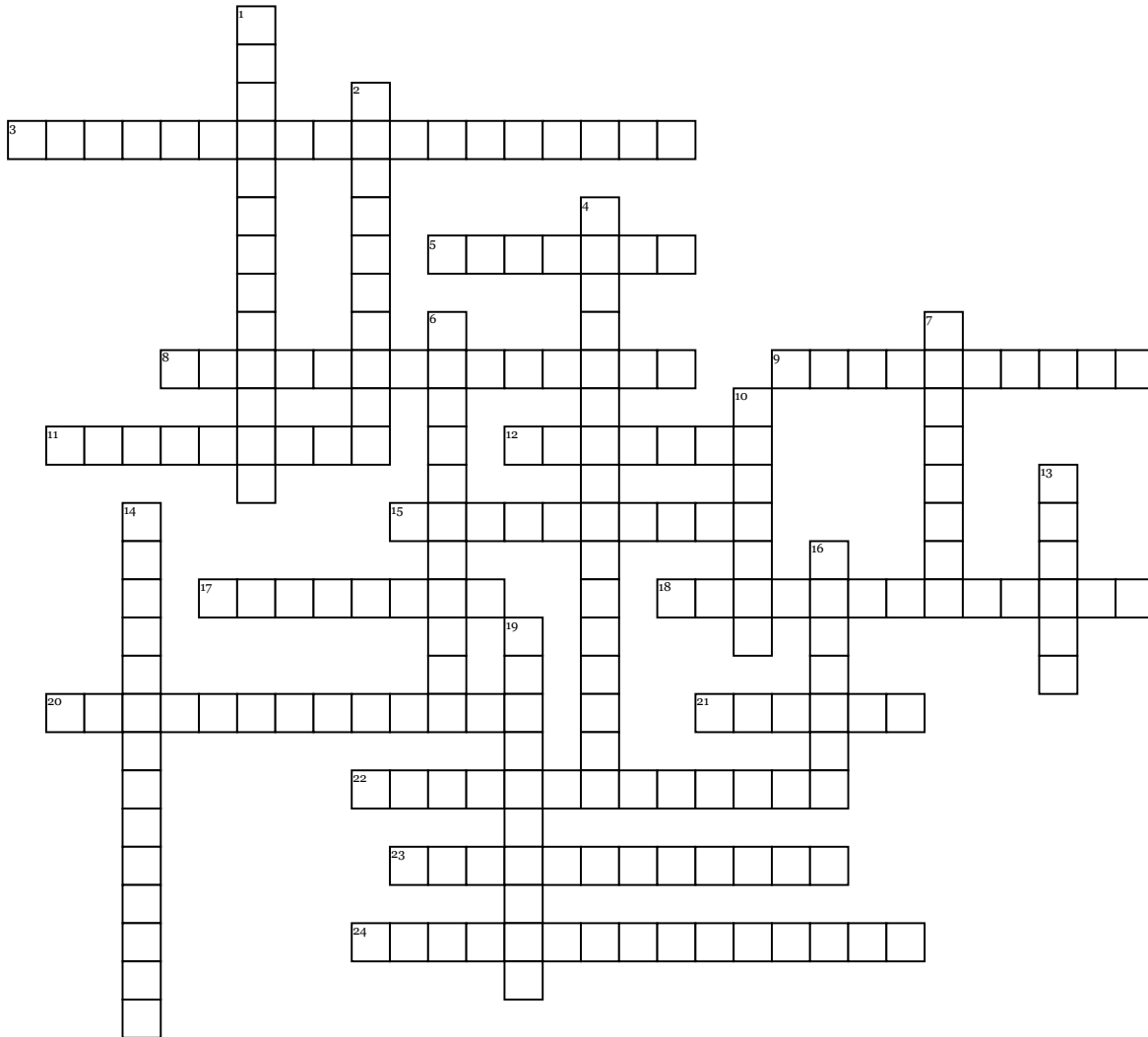


# Physics



## Across

- 3.** interaction between quarks  
**5.** proton or neutron  
**8.** 1/2 the mass  
**9.** gamma rays emitted  
**11.** electron is emitted  
**12.** distinct kind of atom  
**15.** difference of isotope and mass  
**17.** rate of unstable nuclei

- 18.** energy that holds a nucleus  
**20.** intermediate particles  
**21.** joining together  
**22.** spread of reaction  
**23.** Number in right corner  
**24.** change in nucleus  
**Down**  
**1.** elementary particles  
**2.** identical to helium

- 4.** responsible for beta decay  
**6.** emitting radiation  
**7.** time for radioactivity to fall off  
**10.** weak subatomic particles  
**13.** subatomic particles  
**14.** conversion of radiation  
**16.** splitting into parts  
**19.** number of protons