<p>| | | |</p>
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| 1 | An atom of carbon 12  
   and  
   An atom of carbon 13 | 2 | A chlorine atom  
   and  
   A chloride ion |
| 3 | An iron 2+ ion  
   and  
   An iron 3+ ion | 4 | Alpha radiation  
   and  
   Beta radiation |
| 5 | One peak  
   in the mass spectrum of lead  
   and  
   A different peak  
   in the mass spectrum of lead | 6 | The Rutherford model  
   of the structure of the atom  
   and  
   Your own model  
   of the structure of the atom |
| 7 | A line in the atomic emission spectrum  
   of hydrogen  
   and  
   A different line in the same series of  
   lines in the atomic emission spectrum  
   of hydrogen | 8 | A line in the atomic emission spectrum  
   of hydrogen  
   and  
   A line at the same frequency in the  
   atomic absorption spectrum  
   of hydrogen |