# Nuclear decay equations 3

***Education in Chemistry***March 2018[rsc.li/EiC218-thehuntison](http://rsc.li/EiC218-thehuntison)

**This worksheet accompanies the above article ‘The hunt is on’.**

Complete the equations by adding in the type of decay, the isotope undergoing decay and/or the products. Each equation has one or more parts missing.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Type of decay** |  |  |  |  |  |
| **1** |  | $$$$ |  | $$$$ | + |  |
| **2** |  |  |  | $$$$ | + | $$$$ |
| **3** | α | $$$$ |  |  | + | $$$$ |
| **4** |  |  |  | $$$$ | + | $$$$ |
| **5** | α | $$$$ |  |  |  |  |
| **6** |  | $$$$ |  | $$$$ | + | $$$$ |
| **7** | β | $$$$ |  |  |  |  |
| **8** | α |  |  | $$$$ | + |  |
| **9** |  | $$$$ |  | $$$$ | + |  |
| **10** | β | $$$$ |  |  |  |  |
| **11** |  |  |  | $$$$ | + | $$$$ |
| **12** | α |  |  | $$$$ | + | $$$$ |
| **13** | β | $$$$ |  |  |  |  |
| **14** | α | $$$$ |  |  |  |  |
| **15** | α | $$$$ |  |  | + | $$$$ |