# Nuclear decay equations 1

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

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

1. Complete the nuclear equations for a decay of the following isotopes by adding in the products

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| $$$$ |  |  | **+** |  |
| $$$$ |  |  | **+** |  |
| $$$$ |  |  | **+** |  |
| $$$$ |  |  | **+** |  |
| $$$$ |  |  | **+** |  |

1. Complete the nuclear equations for B decay of the following isotopes by adding in the products

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| $$$$ |  |  | **+** |  |
| $$$$ |  |  | **+** |  |
| $$$$ |  |  | **+** |  |
| $$$$ |  |  | **+** |  |
| $$$$ |  |  | **+** |  |

1. Complete the nuclear equations by adding in the isotope that decays and the type of decay

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Type of decay |  |  |  |  |  |
|  |  |  | $$$$ | + | $$$$ |
|  |  |  | $$$$ | + | $$$$ |
|  |  |  | $$$$ | + | $$$$ |