# Isotope and Atomic mass = Worksheet

1. What is an isotope?

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1. How can you tell isotopes apart?

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**For each of the following isotopes, write the number of protons, neutrons, and electrons, or isotope name and mass number**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| --- | --- | --- |
|   | Chromium- 58 | Chromium- 63 |
| # of protons  |    |   |
| # of neutrons  |    |   |
| # of electrons  |    |   |

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|   | Carbon-12 | Carbon-14 |
| # of protons  |    |   |
| # of neutrons  |    |   |
| # of electrons  |    |   |

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| --- | --- | --- |
|   | Nitrogen-14 | Nitrogen-15 |
| # of protons  |    |   |
| # of neutrons  |    |   |
| # of electrons  |    |   |

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|   | Sulfur-23 | Sulfur-25 |
| # of protons  |    |   |
| # of neutrons  |    |   |
| # of electrons  |    |   |

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| --- | --- | --- | --- | --- | --- | --- |
|  |   |   |  |   |   |   |
| # of protons  | 25 |  |  | # of protons  | 32 |  |
| # of neutrons  | 27 | 25 | # of neutrons  | 40 | 42 |
| # of electrons  |    |    | # of electrons  |    |   |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|   |   |   |  |   |   |   |
| # of protons  | 46 |  | # of protons  |  | 55 |
| # of neutrons  | 58 | 61 | # of neutrons  | 83 | 81 |
| # of electrons  |  |  | # of electrons  |  |  |