Discovering Isotope

Website: google “isotope simulation” and pick the first one. Or phet.colorado.edu/en/**simulation**/**isotopes**-and-atomic-mas

1. Then download the program and open it
2. Your assignment is to use 3 different elements and fill in the following chart

Element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Average atomic mass:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Possible Isotopes:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Number of protons** | **Number of neutrons** | **Atomic mass** | **Abundance (%)** |
| 1) |  |  |  |  |
| 2) |  |  |  |  |
| 3) |  |  |  |  |
| 4) |  |  |  |  |
| Draw a pie graph: | Draw a visual representation of the abundance |

Element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Average atomic mass:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Possible Isotopes:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Number of protons** | **Number of neutrons** | **Atomic mass** | **Abundance (%)** |
| 1) |  |  |  |  |
| 2) |  |  |  |  |
| 3) |  |  |  |  |
| 4) |  |  |  |  |
| Draw a pie graph: | Draw a visual representation of the abundance |

Element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Average atomic mass:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Possible Isotopes:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Number of protons** | **Number of neutrons** | **Atomic mass** | **Abundance (%)** |
| 1) |  |  |  |  |
| 2) |  |  |  |  |
| 3) |  |  |  |  |
| 4) |  |  |  |  |
| Draw a pie graph: | Draw a visual representation of the abundance |

Try naming some isotopes



Name:

Number of protons:

Number of neutrons:

Atomic mass:



Name:

Number of protons:

Number of neutrons:

Atomic mass:



Name:

Number of protons:

Number of neutrons:

Atomic mass:



Name:

Number of protons:

Number of neutrons:

Atomic mass:



Name:

Number of protons:

Number of neutrons:

Atomic mass: