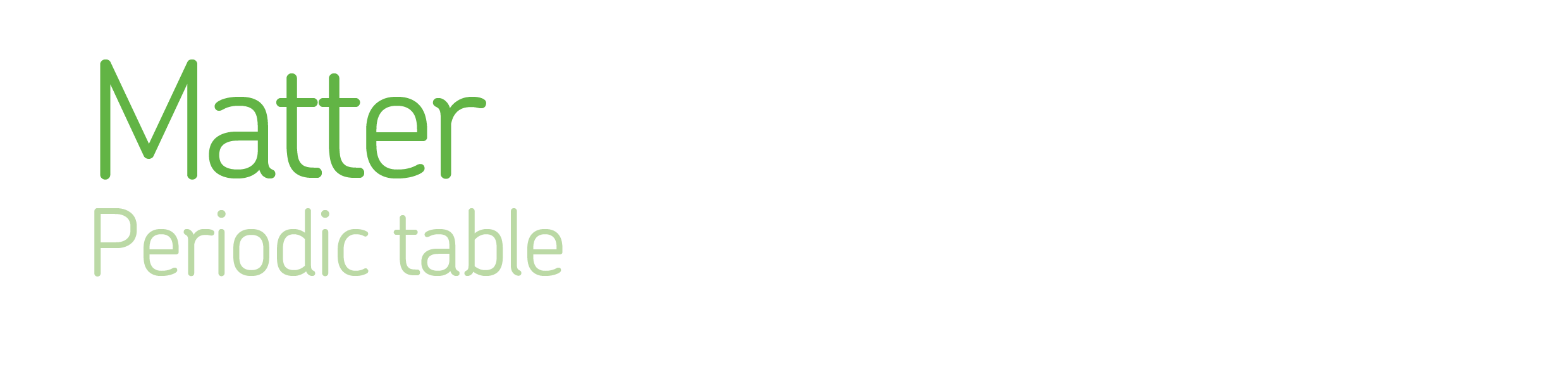
 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Sort elements using chemical data and relate this to their position in the periodic table.



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Know | |  | Apply  2  1 | |
| Ideas | |  |  |  |
| K1 | The elements in a group all react in a similar way and sometimes show a pattern in reactivity. |  | A1 | Use data to describe a trend in physical properties. |
| K2 | As you go down a group and across a period the elements show patterns in physical properties. |  | A2 | Describe the reaction of an unfamiliar Group 1 or 7 element. |
|  | |  | A3 | Use data showing a pattern in physical properties to estimate a missing value for an element. |
| Facts | |
| K3 | Metals are generally found on the left side of the table, non-metals on the right. |  | A4 | Use observations of a pattern in chemical reactions to predict the behaviour of an element in a group. |
| K4 | Group 1 contains reactive metals called alkali metals. |  |  |  |
| K5  K6 | Group 7 contains non-metals called halogens. |  | A5 |  |
|  | Group 0 contains unreactive gases called noble gases. |  |  |  |
|  | |  |  |  |
| Key words | |
| K7 | **Periodic** **table:** Shows all the elements arranged in rows and columns. |  |  |  |
| K8 | **Physical** **properties:** Features of a substance that can be observed without changing the substance itself. |  | A6 |  |
| K9 | **Chemical** **properties:** Features of the way a substance reacts with other substances. |  |  |  |
| K10 | **Groups:** Columns of the Periodic table. |  |  |  |
| K11 | **Periods:** Rows of the Periodic table. |  |  |  |
| 3 | Extend |  |  |  |
| E1 | Predict the position of an element in the Periodic table based on information about its physical and chemical properties. |  |  |  |
| E2 | Choose elements for different uses from their position in the Periodic table. |  |  |  |
| E3 | Use data about the properties of elements to find similarities, patterns and anomalies. |  |  |  |
| E4 |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| E5 |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |