Presenting the non-metals

***Education in Chemistry***March 2020
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Non-metals have some typical properties. But sometimes their properties can be similar to metals.

## Properties of non-metals

Below is a list of non-metal elements. For each element, colour in the squares according to the following code:

Red = property is typical of a non-metal

Blue = property is typical of a metal

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| --- | --- | --- | --- |
| **Element** | **Melting****Point (°C)** | **Appearance** | **Electrical conductivity** |
| Carbon (graphite) | Sublimes at high temp (3600) | Shiny grey solid | Very good |
| Oxygen | -219 | Colourless gas | No |
| Hydrogen | -259 | Colourless gas | No |
| Sulfur | 115 | Yellow solid | No |
| Nitrogen | -210 | Colourless gas | No |
| Fluorine | -220 | Colourless gas | No |
| Chlorine | -102 | Pale yellow gas | No |
| Phosphorus | 44 | Red or white solid | No |
| Bromine | -7 | Red-brown liquid | No |
| Iodine | 114 | Shiny grey solid | No |
| Selenium | 221 | Shiny grey solid | Fair |
| Silicon | 1414 | Shiny grey solid | Fair |
| Helium | n/a no solid form at standard pressure | Colourless gas | No |
| Argon | -189 | Colourless gas | No |
| Neon | -249 | Colourless gas | No |
| Xenon | -112 | Colourless gas | No |
| Radon | -71 | Colourless gas | No |
| Krypton | -157 | Colourless gas | No |

1. Which elements have some properties of both metals and non-metals?
2. Is there a clear trend with their location in the periodic table? Explain your answer.