The Hunt for New Elements

Advances in technology brought on by the Industrial Revolution allowed scientists to discover many new elements in the 19th century. Some of these new elements, such as chromium, cadmium, and cobalt, were particularly useful in creating pigments because they formed many brightly colored compounds.

1) Use [www.webelements.com](http://www.webelements.com) to complete the following table.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cadmium | Cobalt | Chromium |
| Element symbol |  |  |  |
| Atomic number |  |  |  |
| Type of element\* |  |  |  |
| Physical appearance |  |  |  |
| Date of discovery |  |  |  |
| Discovered by: |  |  |  |
| Meaning of the name |  |  |  |

\**main group metal, transition metal, metalloid (semimetal), or nonmetal*

2) Describe the process used to isolate each of the following elements:

a) Cadmium

b) Cobalt

c) Chromium