|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  **Model**  |  **Element** | **Number of Valence Electrons** | **Period Number** | **Group Number** | **Is it a…………….. metal, metalloid, nonmetal, or noble gas**  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Number of valence electrons of the metalloid + period number of the metal X group number of the noble gas / period number of the nonmetal X number of valence electrons of the nonmetal = combination to 3 digit lock**