Chem 1 Hour\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Wexler/Steinhorst  
Atomic Structure and the Periodic Table  
Date assigned\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** | **Atomic Number** | **Number of Protons** | **Number of Electrons** | **Atomic Mass** | **Average Number of Neutrons** |
| lithium |  |  |  |  |  |
| carbon |  |  |  |  |  |
| chlorine |  |  |  |  |  |
| silver |  |  |  |  |  |
| lead |  |  |  |  |  |
| calcium |  |  |  |  |  |
| tantalum |  |  |  |  |  |
| radium |  |  |  |  |  |
| samarium |  |  |  |  |  |
| uranium |  |  |  |  |  |
| americium |  |  |  |  |  |
| lawrencium |  |  |  |  |  |

**Atomic Structure Worksheet – Solution Key**

*Fill in the blanks for the elements in this chart. For the purposes of this chart, round all atomic masses to the nearest whole number.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** | **Atomic Number** | **Number of Protons** | **Number of Electrons** | **Atomic Mass** | **Number of Neutrons** |
| lithium | **3** | **3** | **3** | **7** | **4** |
| carbon | **6** | **6** | **6** | **12** | **6** |
| chlorine | **17** | **17** | **17** | **35** | **18** |
| silver | **47** | **47** | **47** | **108** | **61** |
| lead | **82** | **82** | **82** | **207** | **125** |
| calcium | **20** | **20** | **20** | **40** | **20** |
| tantalum | **73** | **73** | **73** | **181** | **108** |
| radium | **88** | **88** | **88** | **226** | **138** |
| samarium | **62** | **62** | **62** | **150** | **88** |
| uranium | **92** | **92** | **92** | **238** | **146** |
| americium | **95** | **95** | **95** | **243** | **148** |
| lawrencium | **103** | **103** | **103** | **262** | **159** |