

## Structure of the Atom

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

Period: \_\_\_\_\_

1. What does the atomic number tell you about an element? \_\_\_\_\_
2. What does the mass number tell you about an element? \_\_\_\_\_
3. An atom contains 7 electrons. How many protons does it contain and what is the name of that atom? #p+ \_\_\_\_\_ Name \_\_\_\_\_
4. An atom of silver contains 60 neutrons. What is the mass number? \_\_\_\_\_
5. An atom has an atomic number of 37. What is the element? \_\_\_\_\_
6. Complete the following table:

| Isotopic notation                | Atomic # | Mass # | Protons | Neutrons | Electrons |
|----------------------------------|----------|--------|---------|----------|-----------|
| $^{209}_{83}\text{Bi}$           |          | 209    |         |          |           |
|                                  | 56       | 138    |         |          | 56        |
| $^{121}_{51}\text{Sn}$           |          |        |         | 70       |           |
| —_Kr                             |          | 84     |         |          |           |
| $^{40}_{\text{—}}\text{Ca}^{2+}$ |          |        |         |          |           |
| —_ $^{1+}$                       | 47       |        |         | 61       |           |
| —_W                              |          |        |         | 110      |           |
| —_                               |          | 235    |         | 143      | 92        |
|                                  |          | 52     | 24      |          | 24        |
| —_O $^{2-}$                      |          |        |         | 8        |           |
| —_Br —                           |          | 81     |         |          | 36        |