

Unit Atomic Structure

Worksheet

Match each term to its correct definition

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|---------------------|---|
| 1. Atom | A. Central part of the atom |
| 2. Proton | B. Negatively charged particle |
| 3. Neutron | C. Total number of protons and neutrons |
| 4. Electron | D. Positively charged particle |
| 5. Nucleus | E. Number of protons in an atom |
| 6. Isotope | F. Neutral particle in the nucleus |
| 7. Atomic Number | G. Smallest unit of matter |
| 8. Mass Number | H. Atoms of the same element with different neutrons |

Use the periodic table to complete the information

| Element | Symbol | Atomic Number | Mass Number | Protons | Neutrons | Electrons |
|------------|--------|---------------|-------------|---------|----------|-----------|
| Carbon | C | 6 | 12 | | | |
| Sodium | Na | 11 | 23 | | | |
| Neon | Ne | 10 | 20 | | | |
| Phosphorus | P | 15 | 31 | | | |