

# Periodic Table Card Sort

**Hydrogen** colorless, odorless gas  
*nonmetal*

1.0

explodes in air when sparked      found in HCl gas

**Helium** colorless, odorless gas  
*nonmetal*

4.0

unreactive

**Lithium** silvery solid  
*metal*

6.9

reacts with water      found in solid LiCl

**Beryllium** hard, lead-gray solid  
*metal*

9.0

does not react with water      found in solid BeCl<sub>2</sub>

**Boron** hard, black solid  
*metalloid*

10.8

does not react with oxygen      found in BCl<sub>3</sub> gas

**Carbon** hard, clear solid (diamond)  
*nonmetal* or soft, black solid (graphite)  
*metalloid*

12.0

does not react with oxygen      found in CH<sub>4</sub> gas

**Nitrogen** colorless, odorless gas  
*nonmetal*

14.0

not very reactive      found in NH<sub>3</sub> gas

**Oxygen** colorless, odorless gas  
*nonmetal*

16.0

reacts slowly with metals      found in liquid H<sub>2</sub>O

**Fluorine** pale yellow gas  
*nonmetal*

19.0

explodes upon contact with metals      found in HF gas

**Neon** colorless, odorless gas  
*nonmetal*

20.2

unreactive

**Sodium** soft, silvery solid  
*metal*

23.0

reacts vigorously with water      found in solid NaCl

**Magnesium** moderately hard, silvery solid  
*metal*

24.3

reacts only slightly with water      found in solid MgCl<sub>2</sub>

**Aluminum** soft, silvery solid  
*metal*

27.0

does not react with oxygen      found in solid AlCl<sub>3</sub>

**Silicon** moderately hard, silvery solid  
*metalloid*

28.1

reacts very slowly with oxygen      found in SiH<sub>4</sub> gas

**Phosphorus** red solid  
*nonmetal*

31.0

does not react with oxygen      found in PH<sub>3</sub> gas

**Sulfur** brittle, yellow solid  
*nonmetal*

32.1

reacts slowly with metals      found in H<sub>2</sub>S gas

**Chlorine** greenish-yellow gas  
*nonmetal*

35.5

reacts violently with metals      found in HCl gas

**Argon** colorless, odorless gas  
*nonmetal*

39.9

unreactive

**Potassium** very soft, silvery solid  
*metal*

39.1

reacts violently with water      found in solid KCl

**Calcium** moderately hard, silver-white solid  
*metal*

40.1

reacts with water      found in solid CaCl<sub>2</sub>

**Gallium** silvery liquid  
*metal*

69.7

does not react with oxygen      found in solid GaCl<sub>3</sub>

**Germanium** moderately soft, silvery solid  
*metalloid*

72.6

reacts very slowly with oxygen      found in GeH<sub>4</sub> gas

**Arsenic** brittle, steel gray solid  
*metalloid*

74.9

reacts very slowly with oxygen      found in AsH<sub>3</sub> gas

**Selenium** gray solid  
*nonmetal*

79.0

reacts slowly with metals      found in H<sub>2</sub>Se gas

**Bromine** reddish-brown liquid  
*nonmetal*

79.9

reacts vigorously with metals      found in HBr gas

**Krypton** colorless, odorless gas  
*nonmetal*

83.8

unreactive

**Rubidium** extremely soft, silvery solid  
*metal*

85.5

explodes upon contact with water      found in solid RbCl

**Strontium** moderately soft, silver-white solid  
*metal*

87.6

reacts vigorously with water      found in solid SrCl<sub>2</sub>

**Indium** very soft, silvery solid  
*metal*

114.8

reacts very slowly with oxygen      found in solid InCl<sub>3</sub>

**Tin** moderately soft, silvery-gray solid  
*metal*

118.7

reacts very slowly with oxygen      found in SnH<sub>4</sub> gas

**Antimony** very brittle, bluish-white solid  
*metalloid*

121.8

reacts very slowly with oxygen      found in SbH<sub>3</sub> gas

**Tellurium** silver-gray solid  
*metalloid*

127.6

reacts slowly with metals      found in H<sub>2</sub>Te gas

**Iodine** bluish-black solid  
*nonmetal*

126.9

reacts with metals      found in HI gas

**Xenon** colorless, odorless gas  
*nonmetal*

131.3

unreactive