



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Pure silicon is chemically classified as a **metalloid** because silicon

- A is malleable and ductile
- B is an excellent conductor of heat and electricity
- C exhibits hydrogen bonding
- D exhibits metallic and nonmetallic properties



2 In which group of elements do most atoms have **completely filled s and p** valence sublevels?

- A halogens
- B noble gases
- C alkali metals
- D alkaline earth metals

18	2	He	1
	10	Ne	2
	18	Ar	3
	36	Kr	4
	54	Xe	5
	86	Rn	6

3 Which properties are most common in **nonmetals**?

- A low ionization energy and low

4 Within **Period 2** of the Periodic Table, as the **atomic number increases**, the **atomic radius** generally

5



## PREVIEW

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7

- A Ga
- B Ge
- C Br
- D Kr

H																	He
Li	Be											B	C	N	O	F	Ne
Na	Mg											Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	

- A Bi
- B P
- C Sb
- D N

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9 Which characteristic describes most **nonmetals** in the **solid phase**?

- A good conductors of electricity
- B good conductors of heat
- C malleable
- D brittle

10 The element in **Group 14, Period 3** on the Periodic Table is classified as a

- A metal
- B noble gas
- C metalloid
- D nonmetal

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