

### 1.4.4.1: Practice Ions

#### Exercise 1.4.4.1.1

For each element listed, tell whether it forms a cation or an anion. Then tell whether the charge is predictable or variable. If it is predictable, give the charge.

- a) O
- b) Li
- c) Cl
- d) Ca
- e) Ti
- f) Se
- g) Fe
- h) P
- i) K
- j) Ag

**Answer a**

anion, predictable,  $-2$

**Answer b**

cation, predictable,  $+1$

**Answer c**

anion, predictable,  $-1$

**Answer d**

cation, predictable,  $+2$

**Answer e**

cation, variable

**Answer f**

anion, predictable,  $-2$

**Answer g**

cation, variable

**Answer h**

anion, predictable,  $-3$

**Answer i**

cation, predictable,  $+1$

**Answer j**

cation, predictable,  $+1$

#### Exercise 1.4.4.1.1

Which elements in the list below do not usually form ions at all?

Na Ne N C Ca Br B Si S Al

**Answer**

Ne C B Si

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