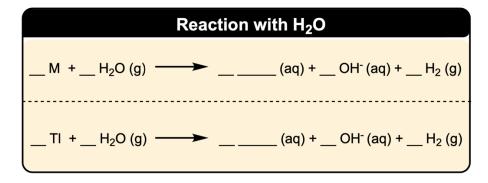
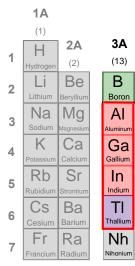
CONCEPT: BORON FAMILY REACTIONS

- Reactions are driven by the presence of ____ valence electrons in their s and p subshells.
 - □ Will cover 2 types of reactions: with (1) ______ & (2) _____.

(1) Reaction with H₂O

• The Boron Family metals do not react with water, but they do react with _____.





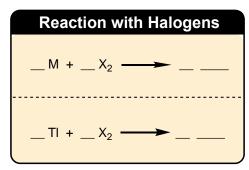
□ Exception: TI possesses a ____ oxidation state.

EXAMPLE: Complete and balance the following reaction.

Ga (I) +
$$H_2O$$
 (g)

(2) Reaction with Halogens

• The Boron Family metals react with halogens to produce _____ halide solids.



EXAMPLE: Provide the products from the reaction between strontium and aqueous chlorine.

Al (s) +
$$Cl_2$$
 (g)