

Name _____

Date _____

2. a) What type of compound are carbon tetrachloride and boron trihydride?

b) What type of bond is formed between the atoms of this type of compound? Describe how it forms.

c) Fill in the following table using Bohr diagrams to show how a carbon atom combines with four chlorine atoms to form carbon tetrachloride. What is happening to the atoms and bonds in this reaction? Describe how energy is involved.

carbon atom + chlorine atoms	carbon tetrachloride
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d) Fill in the following table using Bohr diagrams to show how ammonia (nitrogen trihydride) is broken apart into three hydrogen atoms and one nitrogen atom. What is happening to the atoms and bonds in this reaction? Describe how energy is involved.

nitrogen trihydride	hydrogen atoms + nitrogen atom
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