

Name \_\_\_\_\_

Period \_\_\_\_\_

**Independent Study Unit  
Nomenclature Assignment**

**Part I:** Look up the rules for how to name coordination compounds and complex ions.

List the rules here:

1)

2)

3)

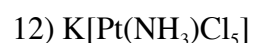
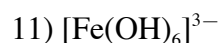
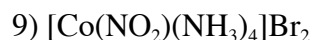
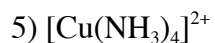
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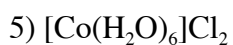
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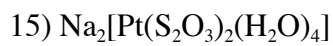
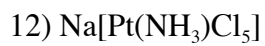
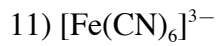
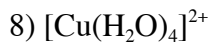
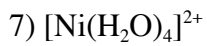
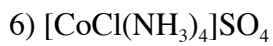
7)

**Part II:** Identify the following as a complex ion or a coordination compound



**Part III:** Name the following species:





**Part IV:** Write formulas for the following species:

1) Tetrachloroferrate(II) ion

2) Pentammineaquaruthenium(III) ion

3) Potassiumamminetrichloroplatinate(II)

4) Hexamminecobalt(III) chloride

5) Triamminebromoplatinum(II) chloride

6) Tetraamminenickel(II) bromide

7) Tetrabromoplatinate(II) ion

8) Diamminedichloroplatinum (II)

9) Sodium amminepentachloroplatinate (IV)

10) Tetraamminechlorosulfatocobalt(III) nitrate