



ACROSS

- 1 A _____ base is any molecule or ion that can form a new coordinate covalent bond, by donating a pair of electrons.
- 5 A _____ is a molecule or ensemble formed by the combination of ligands and metal ions.
- 7 A _____ is an atom, ion, or molecule donating one or more of its electrons through a coordinate covalent bond to one or more central atoms or ions
- 9 _____ is the binding or complexation of a bi- or multidentate ligand.
- 10 _____ chemistry is the study of chemical compounds containing bonds between carbon and a metal.

DOWN

- 2 The field of _____ chemistry covers all chemical compounds except the myriad organic compounds, which are the subjects of organic chemistry.
- 3 A _____ covalent bond is a type of covalent bonding between two atoms in which both electrons shared in the bond come from the same atom.
- 4 _____ number is defined as the total number of neighbors of a central atom in a chemical compound.
- 6 A _____ ligand is an atom or a polyatomic entity that connects two or more metal centres in a complex.
- 8 Arising from the size of the valance shell of a transition metal, the 18-_____ rule is a rule of thumb used primarily in transition metal chemistry for characterizing and predicting the stability of metal complexes.