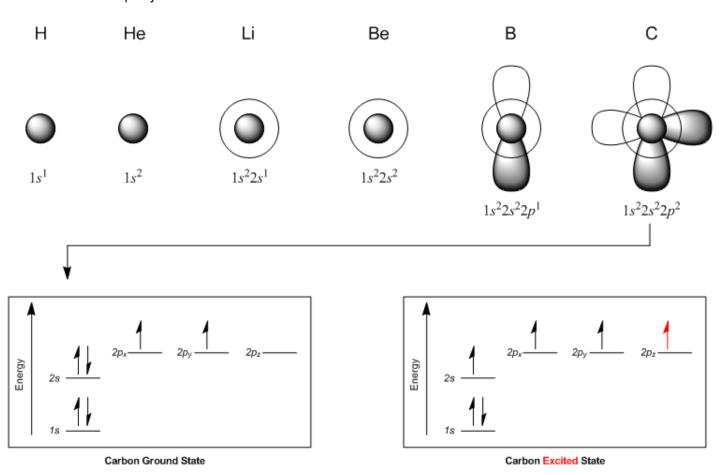
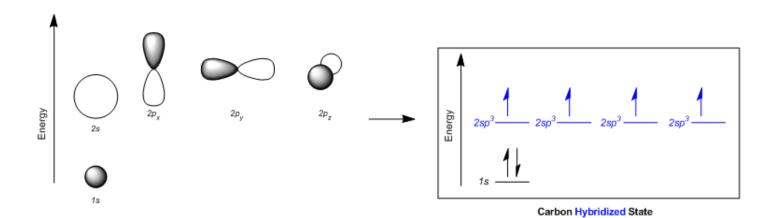
CONCEPT: HYBRIDIZATION

The *Aufbau Principle* states that electrons fill orbitals in order of increasing energy. If carbon has only two unfilled orbitals, why does it like to make 4 bonds?

EXAMPLE: Carbon sp³ Hybridization



• Many atoms prefer to blend some of their 2nd shell orbitals together to make new ______ orbitals



CONCEPT: HYBRIDIZATION SUMMARY

Hybridization can be predicted by the determine the number of				on an aton	า		
	□ Where a bond site is equal to any or						
			Hybridization Summary]	Hybridization	Bond Angle	% S-Character
Bond Sites	Participating Orbitals		Hybrid Orbitals	Unhybridized Orbitals	Hybri	Bond	O-S %

EXAMPLE: Predict the hybridization of the following reactive intermediates

