Association:

Objects that are associated do not have any dependency on each other and can be created or destroyed at will

There lifecycles are not dependant

There is no ownership

A teacher does not own the pupil

A book does not own the author

Aggregation:

Objects have their own lifecycle but there is a dependency to other objects.

The objects in focus does not make sense without the other objects

Can be created and destroyed at will

The parent own the child

Children can only have one parent

A book can only have one author

A suite has a table and several chairs

Composition:

Like aggregation but there is a death relationship

The parent owns the child

If the parent is destroyed all the children are destroyed too

If you delete the suite and the table and all the chairs are deleted

Inheritance:

Inheritance is the process that allows classes to be created from other classes

You can create a class for people which contains details about them. You can then create a sub class for pupils and the new class will have all the properties and methods of people