

Activity 1: Natural and Force Convection

1. What is convection heat transfer mechanism?
2. What is the difference between natural and force convection?
3. What is the application can be related to convection mechanism?

Answer

1. **Convection:** Energy exchange mechanism between a surface and a fluid moving over a surface.
2. **Forced convection:** Flow is induced by an external source such as a pump, compressor, fan, etc.
Natural convection: Flow is induced by natural such as buoyancy effect.
3. Application that been used is in heating equipment and cooling equipment such as air conditioning, refrigeration and others.