

**Answer on Question #47357, Physics, Molecular Physics - Thermodynamics**

*Beaker A contains water at a temperature of 15 Celsius. Beaker B contains water at a temperature of 37 Celsius. which beaker contains water molecules that have greater average kinetic energy?*

Average kinetic energy of molecules depends on its temperature. Temperature can be defined as a kinetic energy measure. Thus, the higher kinetic energy, the higher temperature.

So, the beaker with water at higher temperature will have greater average kinetic energy.

**Answer:** beaker with  $37^{\circ}\text{C}$