1. Arrange water, ethanol (CH₃CH₂OH), and hexane (C₆H₁₄) in order of increasing specific heat (J/g/oC).
   
   A hexane < water < ethanol  
   B ethanol < water < hexane  
   C hexane < ethanol < water  
   D water < ethanol < hexane

2. Arrange water, ethanol (CH₃CH₂OH), and hexane (C₆H₁₄) in order of increasing molar heat capacity (J/mol/oC).

   A hexane < water < ethanol  
   B ethanol < water < hexane  
   C hexane < ethanol < water  
   D water < ethanol < hexane

3. If equal masses of water, ethanol, and hexane are heated for the same amount of time, which will be coolest?

   A water  
   B ethanol  
   C hexane  
   D They will all be the same temperature

4. If equal volumes of water, ethanol, and hexane are heated for the same amount of time, which will be coolest?

   A water  
   B ethanol  
   C hexane  
   D They will all be the same temperature
If equal moles of water, ethanol, and hexane are heated for the same amount of time, which will be coolest?

A) water  
B) ethanol  
C) hexane  
D) They will all be the same temperature