Entropy and Heat

Thermodynamics Winter 2025

College of the Atlantic.

A 1.5 liter container of water is at 5 Celsius. It is placed in a room whose tempature is 20 Celsius. After a while, the water warms up to 20 C. The room, be so much larger than the water, remains at 20 C.	
1. What is the change in entropy of the water?	
2. How much energy has flowed from the room into the water?	
3. What is the change in entropy of the room?	
4 What is the change in entropy of the universe? (Or less ambitiously	the

water-room system?)