**Videos 14B – Specific Heat Name**

  

Example: A. Nicholas Cheep wants to calculate what heat is needed to raise 1.5 liters (1 liter = 1 kg) of water by 5.0 oC. Can you help him? (c = 4186 J oC-1kg-1) (31,000 J)

Whiteboards: (These are solved on the website in the videos linked after the main one)

|  |  |
| --- | --- |
| 1. Adella Kutessen notices what change in temperature if 512 g of iron absorbs 817 J of heat (c = 450. J oC-1kg-1) (3.55 oC) | 2. Anita Break notices that a chunk of Aluminium absorbs 12,000 J of heat while raising its temperature a mere 3.45 oC Of what mass is this chunk? (c = 900. J oC-1kg-1) (3.9 kg) |
| 3. Anne Sodafone does an experiment where 5.412 kg of a mystery substance absorbs 12,510 J of heat while raising its temperature 2.19 oC What is the specific heat? (1060 J oC-1kg-1) | Draw a picture of a turtle here please: |