**Videos 14C – Latent Heat Name**

 

Example: Dewey Cheatham melts 4.51 kg of lead. What heat is needed? (1.1 x 105 J)

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

Take the time to go through #3 – those are the questions that are on the test!!!

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| 1. Helen Highwater pumps 45 MJ (45 x 106 J) of heat into some water at 100 oC. How much boils away?(20. kg) | 2. Aaron Alysis has a 1500. Watt heater. What time will it take him to melt 12.0 kg of ice, assuming all of the heat goes into the water at 0 oC (2660 seconds) |
| 3. Eileen Dover takes 1.42 kg of ice ( c = 2100 J oC-1kg-1) from -40.0 oC to water ( c = 4186 J oC-1kg-1) at 20.0 oC. What TOTAL heat is needed? (7.11 x 105 J) |