



1. How much energy does it take to heat 200. grams of ice at -30. degrees Celsius into steam at 130. degrees Celsius?

2. How much energy does it take to heat 550. grams of ice at -50. degrees Celsius into steam at 120. degrees Celsius?

3. When 350 grams of aluminum at 200. degrees Celsius is added to 2.0 kilograms of water at 20. degrees Celsius, what will be the final temperature of the mixture?

Answers:

6.3e5 J

1.7e6 J

27 degrees Celsius