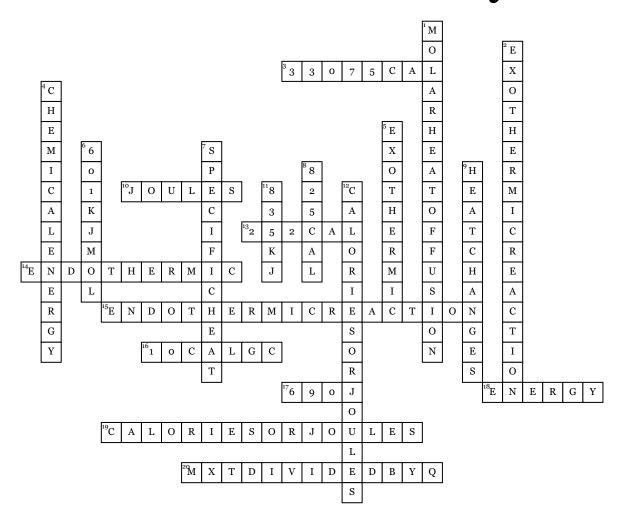
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## Thermochemistry



## Across

- **3.** Mrs. Naser have a 45g sample of aluminum (C = 0.21cal/gC) at 35C. She put it in the freezer until it is oC. How much heat was lost by the aluminum?
- 10. The SI Unit of heat and energy is:
- **13.** The mass of a piece of aluminum foil is 15.0g. The specific heat of aluminum is 0.21cal/gC. If the Al is cooled from 95C to 15C, how much heat is lost?
- 14. When Heat energy is absorbed
- **15.** Ice melting is an example of a(n)...
- **16.** The specific heat of water in calories is:

- 17. A 25g chunk of metal is heated from 25 C to 85 C. If the specific heat of the metal is 0.46J/g C, how much heat is absorbed?
- **18.** What is the ability to do work called?
- **19.** The units for heat are...
- **20.** What is the formula for Specific Heat?

## Down

- **1.** The amount of heat required to melt one mole of a substance is
- **2.** Fireworks exploding is an example of a(n)....
- **4.** What is the energy stored in bonds called?
- 5. When Heat energy is relaeased

- **6.** What is the molar heat of fusion for water?
- **7.** The amount of heat required to raise the temperature of 1g of a substance by 1C is...
- **8.** A 5g rock is placed in 15g water at 3oC. The water temp decreases to 24.5C. How much heat was absorbed by the rock?
- **9.** What is Thermochemistry the study of?
- 11. If you have 25g of ice to melt, how much heat do you need to add in K.12
- **12.** The units for heat are...