

Unit Six, Chapter Eleven Worksheet WS – C – U6C11

Name _____ Period _____

Section 11.1

Matching. Match the definition with the term that best correlates to it. No definition will be used more than once.

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|------------------------------------|--|
| _____ 1. Calorie | _____ 8. Joule |
| _____ 2. Chemical potential energy | _____ 9. Law of conservation of energy |
| _____ 3. Endothermic | _____ 10. Specific heat capacity |
| _____ 4. Energy | _____ 11. Surroundings |
| _____ 5. Exothermic | _____ 12. System |
| _____ 6. Heat | _____ 13. Thermochemistry |
| _____ 7. Heat capacity | _____ 14. Universe |

- A) Amount of heat needed to raise the temperature of 1 g H₂O by 1°C
- B) The SI unit of energy
- C) The totality of all things that exist
- D) The study of heat changes in chemical reactions
- E) The capacity for doing work
- F) Energy contained in bonds of chemicals
- G) Type of reaction or process that absorbs heat
- H) Type of reaction or process that releases heat
- I) Amount of heat required to change an object's temperature by exactly 1°C
- J) Amount of heat needed to raise the temperature of 1 g of a substance by 1°C
- K) States that energy is neither created nor destroyed in any ordinary chemical or physical change
- L) Energy that flows from a hotter substance to a colder substance because of a temperature difference
- M) Any part of the universe upon which attention is focused
- N) Any part of the universe that remains around the area where attention is focused

Problems. Solve the following problems. Show work or receive no credit. Include proper units.

15. How many kilojoules of energy are in a donut that contains 200.0 Calories?