

Units

1. Force – newtons, pounds
2. Energy – joules, calorie, Calorie, kilowatt-hour
3. Calorie=1000 calories
4. A calorie is the amount of energy needed to heat 1g of water 1°C.
5. Joule = 0.25 calorie
6. Power – watt (Power is the rate at which energy is produced; $\text{Power} = \text{Energy} / \text{Time}$)
7. Watt = Joule/Second
8. Energy = Power * Time
9. Kilowatt-hour – energy produced by a 1000-watt light bulb in an hour
10. Kilowatt-hour = 900 Calories

Temperature Units

1. The three temperature scales that exist are Fahrenheit, Celsius, and Kelvin.
- 2.

Temperature Scale	Absolute zero	Freezing	Boiling
Fahrenheit	-459	32	212
Celsius	-273	0	100
Kelvin	0	273	373

3. To convert from Fahrenheit to Celsius, $C = 5/9 (F - 32)$
4. To convert from Celsius to Kelvin, $K = C + 273$
5. There are no negative temperatures in Kelvin
6. Kelvin is used commonly in science.