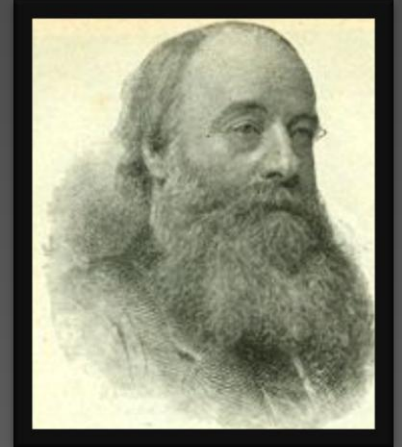


Warm Up

Is the following statement(s) true or false?
If it is false, change the
statement to make it true.



James Prescott Joule

- 1. Any sample of matter has energy if it can produce a change in itself or in its surroundings.**
- 2. A joule is equal to one newton meter.**
- 3. According to the law of conservation of energy, energy can be created or destroyed under ordinary conditions.**
- 4. Mechanical energy is the total amount of kinetic and potential energy in a system.**
- 5. A rock at the edge of a 200 meter high cliff has more potential energy than an equal-sized rock at the edge of a 600 m high cliff.**
- 6. The energy stored in foods, fuels, and dry cell batteries is chemical potential energy.**