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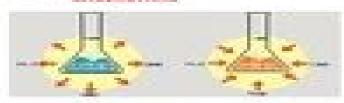
Thermodynamics IN CLASS Skill Reviews

Skill - Can define and identify direction of heat flow for exothermic and exothermic attrations Before completing the calculations below, asswer the following:

- Provide the labels exothermic and endothermic, to the following pictures
 What are some everythic examples of
 - What are some everyday examples of endother min

exothermic and endothermic reactions?

Answers may vary - exothermic (but pad),



- 2. Label the following reactions as being exothermic or endothermic
 - As a tree grows, photosynthesis altertic energy from the environment to break spart CO₃ and H₂O
 - Sweating cools a person down as energy is coloured from the skin to change water into a gas.

Skill - Lies the equation if we've correctly when given these terms in a real-world situation. For the following, calculate the AE and label each scenario as describing an exothermic or endethermic reaction:

- 3. A system releases 23 j of heat while 12 j of work is done on it. What is the ΔΕΓ ΔΕΓ α α to the ΔΕΓ α 120 = 120 conthe rade.
 - 4. If a system absorbs 67 | of heat and performs 52 | of work, what is the 657 of: = q+w + 6.7 + -3.7 = 554 endothermic

SMB - Use gwarngs to calculate the mosting quantity; given the others. Be sure to show all work required for the following calculations:

5. Graphite has specific heat of 0.709 g/grC. If a 25-6g piece of graphite is cooled from 25°C to 10°C, how much energy was lost by the graphite? Is the reaction endothermic or exothermic?

Q=smgt -9 d. 20/9/g*C x 25.0g x -1.7*C = -3003 evallermin

6. An unknown substance with a mass of 180 Sq. absorbs 1.0x10% while undergoing a temperature increase of 15%. What is the specific heat of the substance? In the reaction and othermic or an othermic?

Q=+mgt + x = Q/mgt + 1.0×103/1100.0g × 15*C) = 0.6/3/g*C, Q is endothermic

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JL Elias

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