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Same Heat Either Way: Hess's Law

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Everyone knows that when a mountain has several trails, the height difference between the foot and the summit is the same no matter which path you climb. What if the heat that comes out of or goes into a chemical reaction worked the same way—totaling the same whenever the start and finish match, no matter which route you take? Thanks to that simple property, heat you cannot measure directly can be found by calculation. That rule is Hess's Law (Hess's Law). Whether a chemical reaction happens in one step or is split into several, the overall change in enthalpy is the same if the starting and en