## **9. Mind Map: Conservative Forces**



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# **4 Key Conditions That Define a Conservative Force**



Runner on a hill going from A to B and then coming back to A



Work depends only on initial and final potential energy:  $WAB = -\Delta U = (mgYa - mgYb)$ 

|f the object returns to the starting point, total work = () WAB + WBA = 0

Work done in one direction is reversed on return: WAB = - WBA

Work done is the same along any path between two points

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