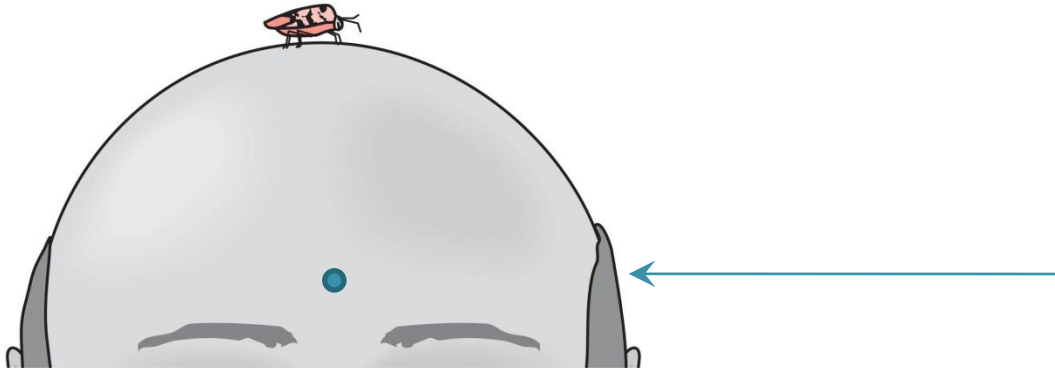


- **Suppose it takes the same amount of work to push a trunk straight across a rough floor as it does to lift a weight the same distance straight upward. How do the amounts of work compare if the trunk and the weight are moved instead on curved paths between the same starting and ending points?**

- A. The two amounts of work will remain equal to each other.
- B. The amount of work to move the trunk will be greater.
- C. The amount of work to move the weight will be greater.

- A bug lands on top of the frictionless, spherical head of a bald man. It begins to slide down. Will the bug remain on the head down to the point indicated by the arrow (90 degree rotation)?
- A. Yes, it will.
- B. No, it will lose contact with the head before that. [If so, where will it?]



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