

Balancing Magic Hook

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Simple Magic Toy and Science Kit

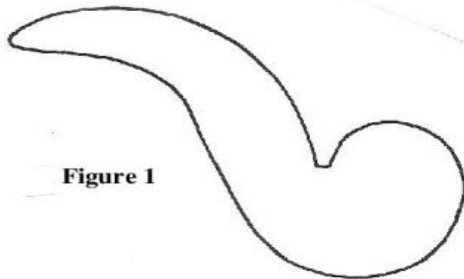


Figure 1

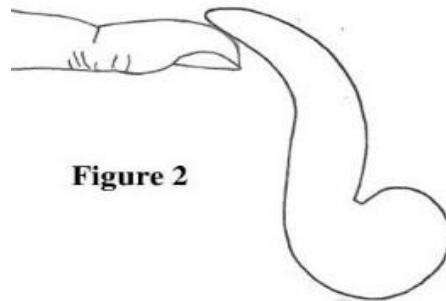


Figure 2

Allow the kid in you to be enthralled by the magical effect. Then also get enlightened by the science behind this magic. Challenge anyone to balance the hook on the tip of the finger. When they say it is impossible, say that you will not only balance it, but add more weight to it in the bargain. While people think you have gone nuts, remove your trouser belt or ask someone for it. Wedge it between the slot in the hook so that it hangs with equal weight on both sides. Now balance the hook on the tip of your finger. This one will surprise you too! Now think: Is this black magic or is it science in action following the laws of Gravity! It took a falling apple for Newton to crack the Gravity code. This magic can make u understand the laws of gravity even better! Note: Belt not included.

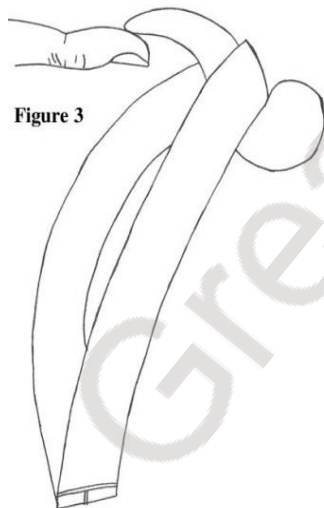


Figure 3

HOW IT WORKS — If an object (which is free to rotate) is to be in stable equilibrium, the centre of mass must be below the pivot point. When the hook alone is placed on a fingertip, it is impossible for the centre of mass to be position below the pivot point without the hook sliding from the finger and falling. (The pivot point is just the contact point between the hook and the finger.) When the belt is on the hook, the centre of mass of the system (hook + belt) is now positioned somewhere in the middle of the loop formed by the belt, and it is “easy” for the centre of mass to be under the pivot point, with stable equilibrium being the result.

Reference : <https://www.quora.com/What-is-the-principle-behind-balancing-birds>

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