

# MECHANISMS INFORMATION / WORKSHEETS

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On behalf of The World Association of Technology Teachers

# W.A.T.T.



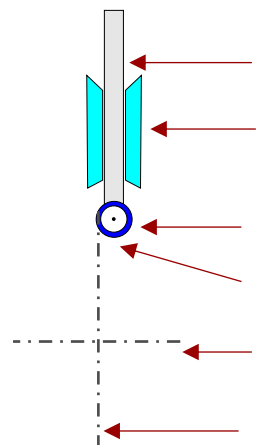
World Association of Technology Teachers

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# SNAIL / DROP CAMS

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1. Complete the diagram shown opposite by adding a snail / drop cam profile.

2. Add labels to all the arrows. These should name the parts correctly.

3. Describe the motion of the follower when a snail / drop cam profile is used.

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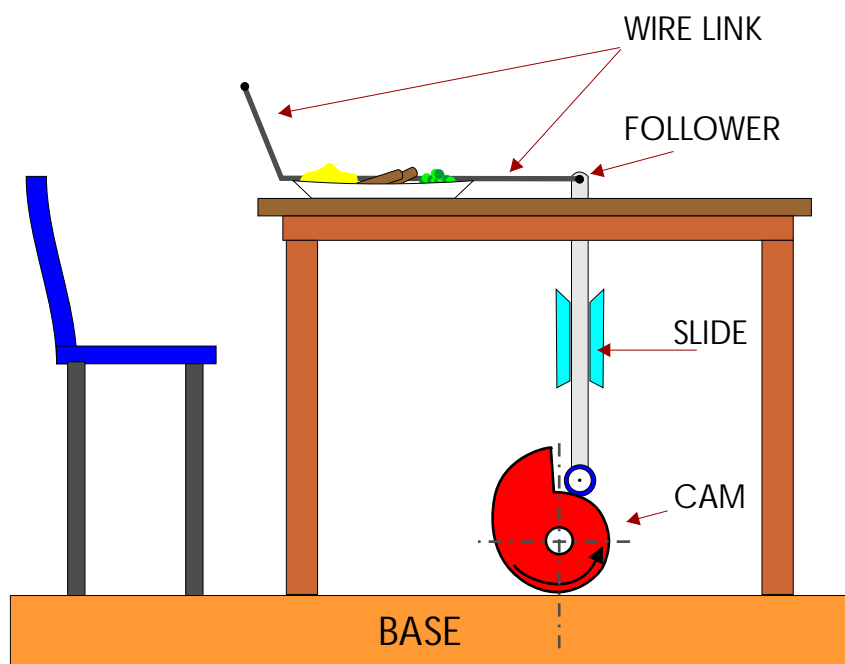
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4. The incomplete mechanical toy seen below has a snail/drop cam as its main part. The follower is connected to the arm of a model person by a wire link. As the cam rotates, the follower rises and the wire link lifts the model's arm. This gives the appearance of the model person lifting a fork full of food towards his/her mouth. As the cam continues to rotate the follower suddenly falls and also the model's arm and fork.

Draw the model of the person. Include detail that clearly shows how the arm moves in relation to the snail / drop cam - including pivots, linkages etc..... Add notes that explains the working of the model, cam, follower, slide and any important details.



NOTES: \_\_\_\_\_

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