SECTIONS AND BEAMS

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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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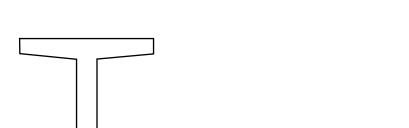
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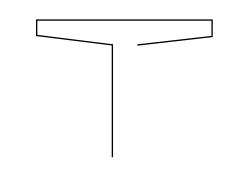
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1. Complete the diagrams of the various sections shown / named below, by adding the missing lines. All the sections should be completed as 3D sketches / drawings.

CIRCULAR SECTION SQUARE SECTION U-SECTION L-SECTION T-SECTION



I-SECTION



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2. What are the advantages of using steel tube rather than solid section steel, on larger projects?
3. Look carefully at the bicycle shown below. Identify the different sections that have been used during its construction. One section has already been identified for you. Add other sections by drawing them and naming the part.
WHEELRIM
4. What materials are used to manufacture modern bicycle frames? Why are these materials used?
MATERIALS:
WHY USED:
5. Look around the rooms in your home, especially the kitchen and bathroom. Describe the use of tube in these rooms. You may wish to talk about the materials and sections used.