

INSTRUCTIONS
 Include sketches, diagrams and notes in your answers.

MECHANISMS - INTERACTIVE KNOWLEDGE MAP

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INSTRUCTIONS
 Place an 'X' alongside each 'flame', as you complete each exercise



1. DESCRIBE 4 TYPES OF MOTION

2. WHAT IS A CAM?

3. SKETCH AND NAME 4 CAM PROFILES

4. SKETCH AND DESCRIBE A PRACTICAL APPLICATION OF A SNAIL CAM

9. HOW COULD THE FIREMAN 'LIFT' WATER FROM A RIVER, TO PUT OUT THE FIRE?

8. WHEN COULD A RATCHET MECHANISM BE USEFUL?

7. HOW DOES A CRANK AND SLIDER WORK?

6. WHAT IS A LINEAR CAM?

5. HOW DOES AN ECCENTRIC CAM WORK?

10. SKETCH AND DESCRIBE 4 LINKAGE MECHANISMS

11. HOW COULD A TREADLE MECHANISM BE USED?

12. SKETCH AND DESCRIBE A MECHANISM SUITABLE FOR A TOOL BOX

13. DRAW A DEVICE THAT HELPS THE FIRE DEPARTMENT REACH FIRES

15. DESCRIBE AND SKETCH A PRACTICAL APPLICATION OF SPRINGS

14. DESCRIBE AND SKETCH 3 TYPES OF SPRING

