MECHANISMS - INTERACTIVE KNOWLEDGE MAP

INSTRUCTIONS
Include sketches, diagrams and notes in your answers.

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

START YOUR TRAINING

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

5. HOW DOES AN ECCENTRIC CAM WORK?

6. WHAT IS A LINEAR CAM?

7. HOW DOES A CRANK AND SLIDER WORK?

8. WHEN COULD A RATCHET MECHANISM BE USEFUL?

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

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

14. DESCRIBE AND SKETCH 3 TYPES OF SPRING

FINISH

15. DESCRIBE AND SKETCH A PRACTICAL APPLICATION OF SPRINGS