

INSTRUCTIONS

Include sketches, diagrams and notes in your answers. Click on the 'pirate/boat' for helpful links.

GENERATING POWER FROM WATER - INTERACTIVE KNOWLEDGE MAP

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

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1. WHAT IS TIDAL POWER?



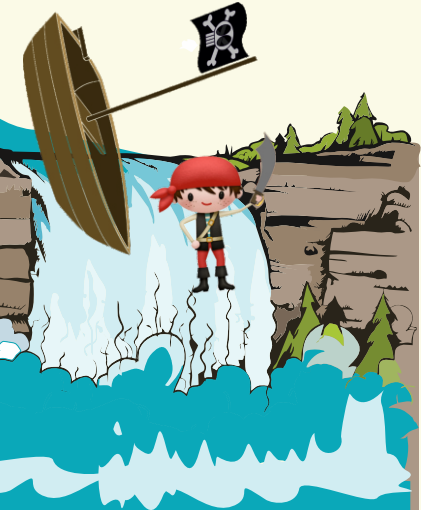
2. WITH NOTES AND SKETCHES EXPLAIN HOW A WATER WHEEL GENERATES POWER.



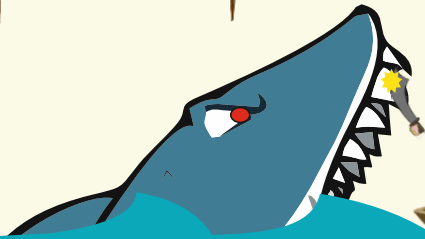
3. DESCRIBE THE RANCE TIDAL POWER SCHEME. Include a diagram.



4. EXPLAIN THE USE OF OFF SHORE TURBINES. Include a sketch / diagram.



5. DESCRIBE THREE WAYS OF PRODUCING ELECTRICITY FROM WAVES. Sketches are required.



6. WITH THE AID OF A DIAGRAM, HOW CAN SEA BUOYS BE USED TO GENERATE ELECTRICITY?



7. DESCRIBE HOW AN HYDRO-POWERED ARCHIMEDEAN SCREW, GENERATES ELECTRICITY. Include a practical application.



8. HOW IS HYDROELECTRICITY GENERATED? Include a labelled sketch.



9. 'PUMP STORAGE' DIFFERS FROM A TYPICAL HYDROELECTRICITY SYSTEM. HOW?

