WHERE POSSIBLE, ANSWER ALL THE QUESTIONS, WITH NOTES AND SKETCHES. CLICK ON EACH 'MONSTER VEHICLE' FOR HELPFUL LINKS.

ENERGY STORAGE - KNOWLEDGE MAP

1. HOW DOES A WIND UP WATCH STORE AND RELEASE ENERGY?

2. WITH NOTES AND A SKETCH, **EXPLAIN A 'COMMERCIAL SPRING POWERED - ENERGY** STORAGE SYSTEM'.

3. BRIEFLY, HOW DOES A PNEUMATIC SYSTEM WORK? 4. DESCRIBE A PRACTICAL **APPLICATION OF A** PNEUMATIC SYSTEM. **INCLUDE A SKETCH.**





7. WHAT IS A FLYWHEEL?

EXPLAIN HOW IT WORKS.





8. PASTE AN IMAGE OF A VICTORIAN APPLICATION OF A FLYWHEEL.



6. DESCRIBE TWO PRACTICAL APPLICATIONS OF HYDRAULICS. INCLUDE AN IMAGE OF EACH ONE. 5. HOW DOES AN HYDRAULIC **SYSTEM WORK? INCLUDE A** LABELLED DIAGRAM.







9. DESCRIBE A MODERN APPLICATION OF A FLYWHEEL. INCLUDE A DIAGRAM / SKETCH.

10. DESCRIBE ALKALINE BATTERIES AND INCLUDE A DIAGRAM SHOWING THE VARIOUS SIZES.

11. WHY ARE RECHARGEABLE **BATTERIES, A BETTER ALTERNATIVE** TO DISPOSABLE BATTERIES?

12. DESCRIBE ONE **EXAMPLE OF LARGE SCALE ENERGY** STORAGE.







