

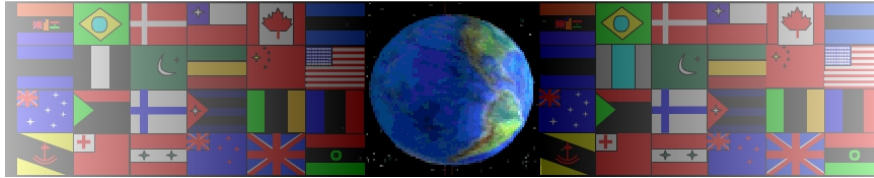
SYSTEMS AND CONTROL INCLUDING GEARS

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On behalf of The World Association of Technology Teachers

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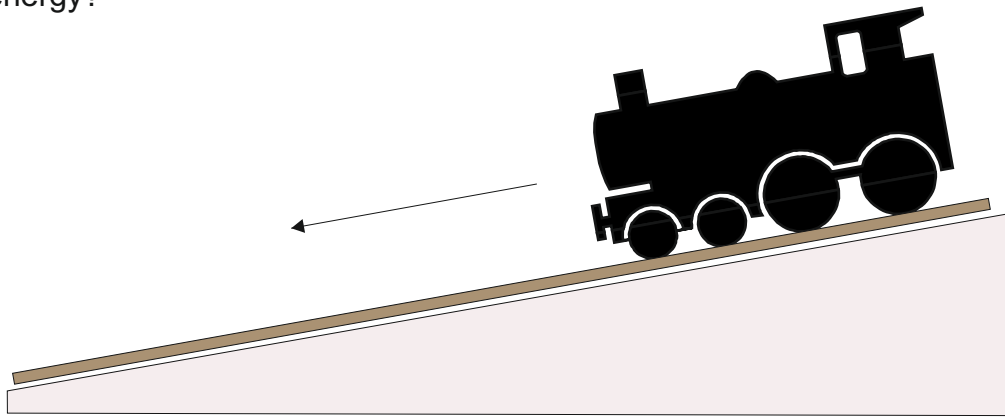
SYSTEMS AND CONTROL INCLUDING GEARS

1. Diesel trains are used throughout the country. They use diesel as a fuel for engines which drive the train forwards at high speed, creating movement. Complete the systems diagram below to show the main energy changes.



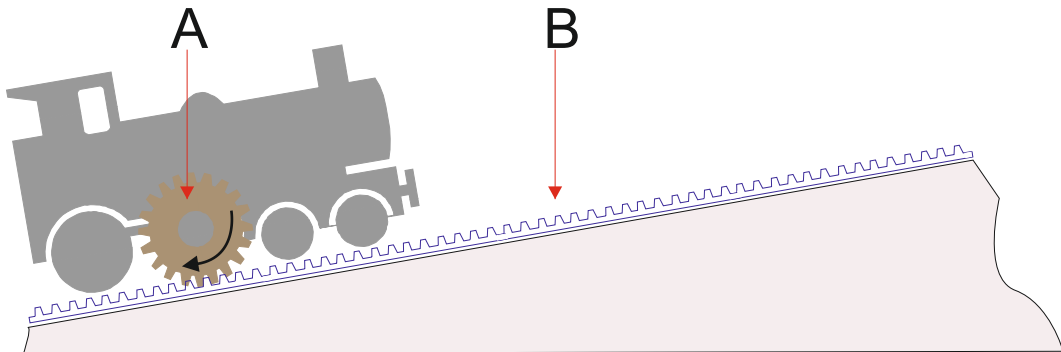
2. What is Kinetic Energy ?

3. The train seen below is at the top of an incline. At any point it could roll downwards, gathering speed. What is potential energy?



Potential energy is: _____

4. The train at the bottom of the steep incline has a special gear system. On the diagram the gear system is marked A and B. What are the correct names for parts A and B ?



PART A: _____

PART B: _____