

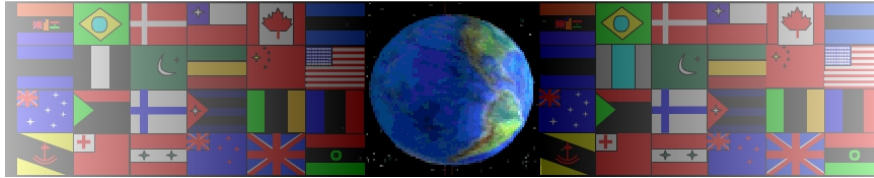
MOVEMENT/MOTION AND SENSOR CIRCUIT - QUESTIONS

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On behalf of The World Association of Technology Teachers

W.A.T.T.



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MOVEMENT/MOTION AND SENSOR CIRCUIT - QUESTIONS

1. Motion involves movement of some kind. Four types of movement are listed below. Label the diagrams that represent motion with the correct name.

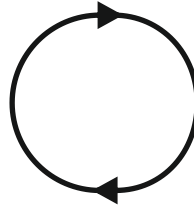
LINEAR



ROTARY



OSCILLATING



RECIPROCATING



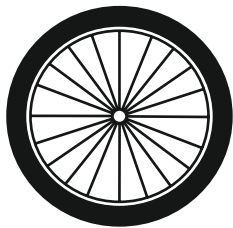
2. The items listed below all involve movement. Label each diagram with the correct type of movement

A.

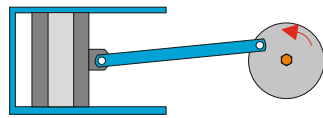
B.

C.

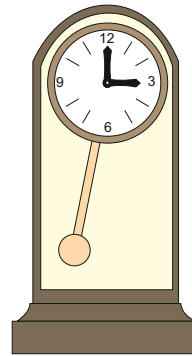
D.



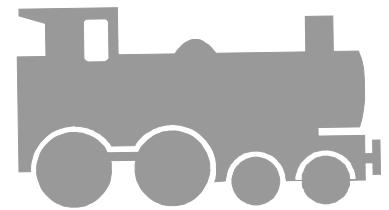
BICYCLE WHEEL



PISTON

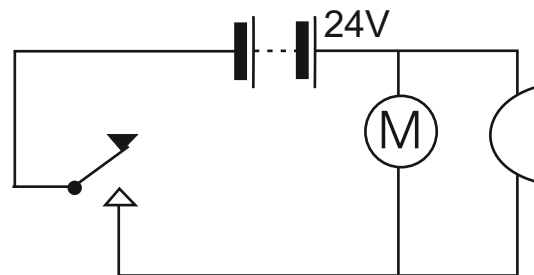
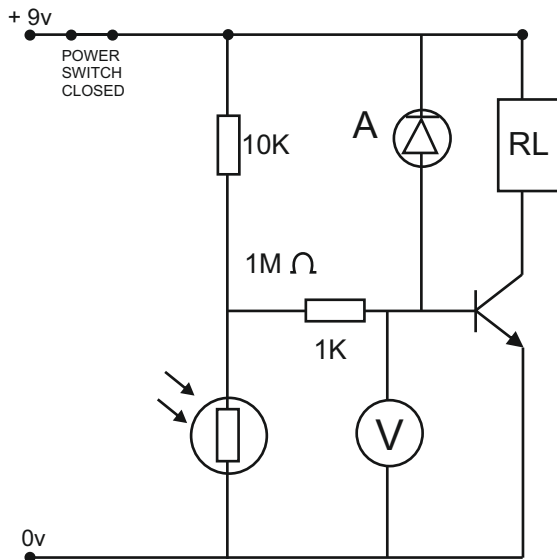


PENDULUM CLOCK



LOCOMOTIVE

3. The sensor circuit seen below is used to sense the movement of model trains. It is normally positioned before a model railway station. When a train is arriving the sensor detects a drop in the light level and a motor changes the signal and sounds a buzzer



3A. Why has the circuits designer used a relay ?

3B. Name the component labelled 'A' and explain why its function.

NAME: _____

FUNCTION: _____

4. What happens to reading on the voltmeter when a train passes the sensor ?
