

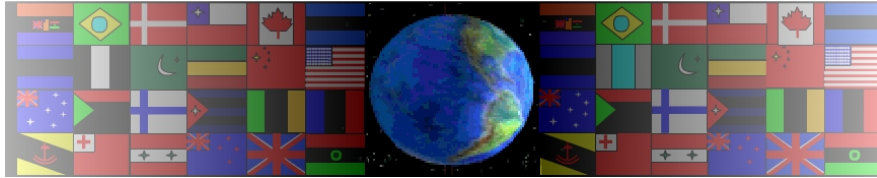
TYPES OF MOTION AND SENSOR CIRCUIT

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On behalf of The World Association of Technology Teachers

W.A.T.T.



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TYPES OF MOTION AND SENSOR CIRCUIT

5. Explain why the gear system shown above is used where there are speed inclines.

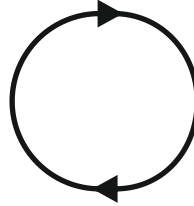
6. Motion involves movement of some kind. Four types of movement are listed below. Label the diagrams that represent motion with the correct name.

LINEAR

ROTARY

OSCILLATING

RECIPROCATING



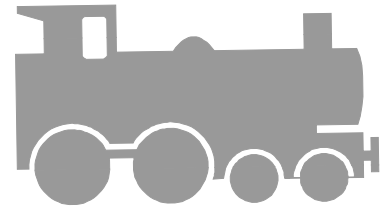
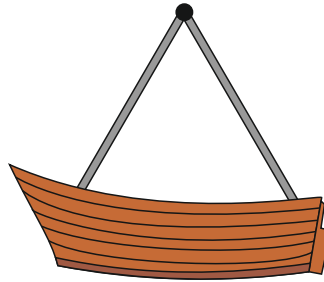
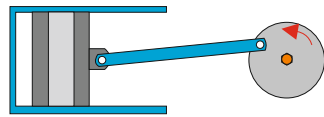
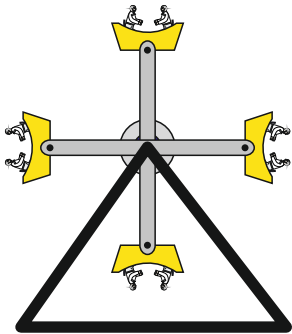
7. The items listed below all involve movement. Label each diagram with the correct type of movement

A.

B.

C.

D.



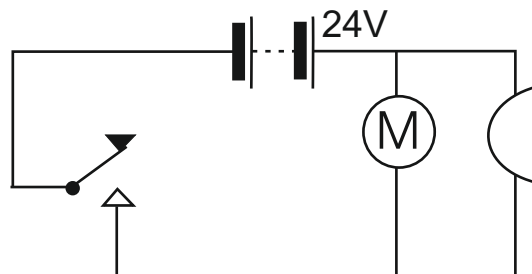
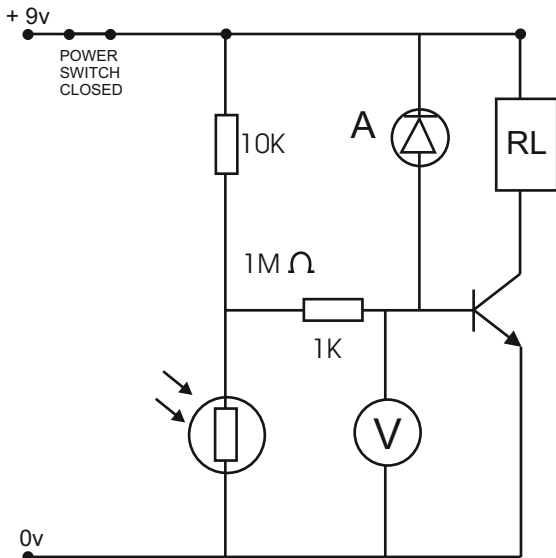
DAREDEVIL RIDE

PISTON

PIRATE BOAT RIDE

MODEL LOCOMOTIVE

8. The sensor circuit seen below is used to sense the movement of carriages on a roller coaster. It is normally positioned before a riders platform. When a carriage is arriving the sensor detects a drop in the light level and a motor changes the signal and sounds a buzzer ensuring that the next set of riders stand in the safe zone as it arrives.



A. Why has the circuits designer used a relay ?

TYPES OF MOTION AND SENSOR CIRCUIT

8b. Name the component labelled 'A' and explain why its function.

NAME: _____

FUNCTION: _____

8c. What happens to reading on the voltmeter when a train passes the sensor ?
