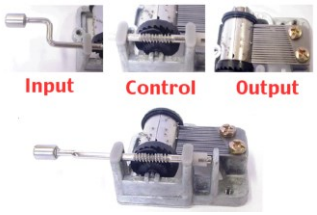
Movements

Questions	Suggested Answers
1.  A  B  C  D a. Name the 4 types of movement above. b. Which one moves back and forth? c. Which one moves in a straight line? d. Which one rotates? e. Which one swings back and forth from a fixed point?	Linear, Rotary, Oscillating, Reciprocating Reciprocating D Linear A Rotating B Oscillating C
2.  A  B  C  D The 4 mechanisms above turn rotary movement into a number of different types of movement. Describe in detail the different types of movement A, B, C and D will achieve.	A = crank = reciprocating with lateral B = snail cam = reciprocating smooth up/sudden down C = eccentric cam = reciprocating smooth up/smooth down D = scotch yoke = reciprocating smooth up/smooth down
3.  E  F Pictures E and F show 2 different mechanisms. a. Name the mechanisms. b. Explain the difference between their inputs and outputs.	E = Linkage. The output is double the input F = Lever. The output is double the input
4.  G a. Name the mechanism above. b. What are the 2 main differences between the input and output?	Ratchet. 1 revolution of input = 8 revolutions of output. Smooth input. Uneven output

Questions	Suggested Answers
5.  a. Name the input for both H and I. b. What is their output?	H = Rotary input oscillating/reciprocating output I = rotary input reciprocating output
6.  Both J and K have rotary input. What do both of them have in common when it comes to the relationship between their input and output.	They both have a change of direction
7.  Give an example of each of the above.	 In the music box, the INPUT is the handle. The CONTROL is the worm gear and drum. The OUTPUT is the sound produced by the tuned forks.