

### DETAILED DESCRIPTION OF BULB DESTROYING MACHINE

Steps	Description
1	Tweety has dropped lamp on 45 degree platform which directs lamp to fall on right arm of mechanism in step 2.
2	Sudden impact of lamp on right side of mechanism causes arm to move down.
3	Moving of right arm in downward direction causes weight lifting on left side.
4	Weight lifting causes releasing black ball on arc shaped slope. Black ball hits on lever which causes pulley mechanism to move
5	Movement of pulley causes rope to move in downward direction which further causes plunger movement in downward direction
6	Downward movement of plunger causes liquid to get pressurised which comes out through nozzle & falls on cup shaped arm which causes hand to move in upward direction.
7	Upward moving of hand causes releasing of spring tension which further causes movement of horizontal bar to left side which operates lever to move in right direction.
8	Movement of lever causes tension in spring of clamp which releases ball shaped black weight.
9	Falling of black weight on left side arm of mechanism causes downward movement of left arm & upward movement of right arm.
10	Upward movement of right arm causes jumping of red ball on mechanism 11.
11	Impact of red ball on left side arm causes weight on right side to move upward which activates scissor.
12	Activation of scissor arm causes cutting of rope.
13	Due to cutting of rope red baloon get released from weight no 13.
14	Upward moving of baloon causes right arm of mechanism to move up & left arm to move down.
15	Downward movement of left arm causes black ball to fall on slope which further hits pinion gear lever .
16	Activation of rack & pinion mechanism causes liquid in jug tyo fall down.
17	Liquid gets collected in cup causes right hand spring operated rack to move in downward direction & left hand spring operated rack in upward direction.
18	Upward movement of right arm causes clamp arm to move up which releases black ball shaped weight.
19	Falling of black weight on left side arm of mechanism causes downward movement of left arm & upward movement of right arm which activates lever mechanism on left side
20	Upward moving of arm releases red ball on slope which falls in funnel.
21	Hitting of ball on flap, opens the box which releases rabbit on conveyor which causes forward moving of box
22	The forward moving of the box activates the hammer.
23	Hitting of hammer causes ILB to break which releases rope.
24	Releasing of rope causes weight to move down which activates rack & pinion gear mechanism.
25	Forward movement of rack causes spring operated hand to move in upward direction.

26	Upward movement of hand causes red ball to move through semicircular channel which then falls on left side lever of mechanism 27.
27	Activation of lever causes downward movement of lever which further causes lightening of candle.
28	Lightening of candle causes burning of square part which further causes releasing of tension on the spring.
29	Movement of spring causes movement of lever in right direction which hits on the red ball. Hitting causes movement of red ball through channel which then falls on left side of lever of mechanism 30.
30	Downward movement of lever causes rack & pinion arrangement to activate. Movement of pinion causes upward movement of rope which causes opening of lid of bottle
31	Movement of rope also cause opening of poster which shows light improvisation centuriwise.

ANSWERS OF QUIZ:

1	ESTIMATE HOW LARGE IS "?" IN PERCENT?										
Ans	Incandescent bulb lamp converts only 1.3% of energy in coal provided to power plant to generate useful energy output										
2	What is the "useful energy output of "CFL"?										
Ans	Following is the table shows useful energy output of cfl.										
	<table border="1"> <thead> <tr> <th>CFL Watts</th> <th>Output Lumens</th> </tr> </thead> <tbody> <tr> <td>10 to 13</td> <td>450 or more</td> </tr> <tr> <td>14 to 19</td> <td>800 or more</td> </tr> <tr> <td>20 to 25</td> <td>1100 or more</td> </tr> <tr> <td>29+</td> <td>1600 or more</td> </tr> </tbody> </table>	CFL Watts	Output Lumens	10 to 13	450 or more	14 to 19	800 or more	20 to 25	1100 or more	29+	1600 or more
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3	Where is the "energy lost" on its way from coal to electricity consumed by the cfl?										
Ans	60% energy of coal lost in heat & 10% of energy lost in tranformer & wiring.										