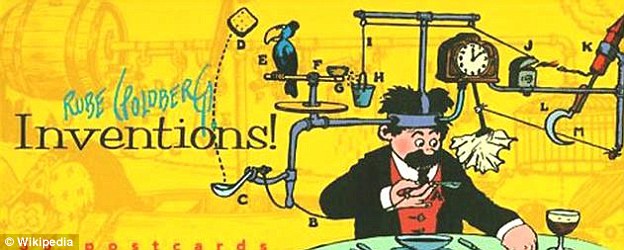
**Rube Goldberg Machine**

1. **Name: ‘The self-Operating Napkin’**
2. **Annotated Sketch:**



1. **Description of Operations:**

The 'self-operating napkin' is activated when soup spoon **(A)** is raised to mouth, pulling string **(B)** and thereby jerking ladle **(C)**, which throws cracker **(D)** past parrot **(E)**. Parrot jumps after cracker and perch **(F)** tilts, upsetting seeds **(G)** into pail **(H)**. Extra weight in pail pulls cord **(I)**, which opens and lights automatic cigar lighter **(J)**, setting off skyrocket **(K)** which causes sickle **(L)** to cut string **(M)** and allow pendulum with attached napkin to swing back and forth, thereby wiping chin.

In 1931, the Merriam-Webster dictionary defined 'Rube Goldberg' as accomplishing something simple through complex means.

1. **Universal Systems Model**

**Subsystem 1:**

Output

Process

Input

Feedback

**Subsy**s**tem 2:**

Feedback

Input

Output

Process

1. **Core Technologies:**
   1. List and Label all the technologies included in your machine
   2. Describe each of the 9 subsystem’s function
   3. Label the age of technology from which your chosen item derives from (use all 9)
   4. Complete a universal systems model for each of the 9 subsystems in your machine’s design

**Ex.** Subsystem 1: Stone Axe – Structural Technology – Paleolithic Age

String - Material technology – Neolithic Age

Automobile – Mechanical Technology – Industrial Age

Stone Axe , Energy, Human

String

Human starts the machine by swinging the stone axe towards the string

Cut String

Automobile is released