List the steps in Technological Design

- Problem Identification
- 2. Solution Design-brainstorm ideas
- Implementation of the Solution-make product and pass it out to people/sell
- 4. Evaluation of the product or solution to the problem

Strawberry PIE-

There is a strawberry in the pie.

6-1.4 Use a technological design process to plan and produce a solution to a problem or a product.

Technological Design

Steps to follow to produce a solution to a problem or a product

Problem Identification

 Need for a product (medicine, device or tool) to be discovered

or

Need for a solution to a problem

Solution Design

- Various possible solutions or products are considered
- Consideration for risk and benefits
 - If benefits outweigh the risk, design <u>is</u> <u>implemented</u>
 - If risk outweigh the benefits, a <u>new design</u> needs to be implemented.

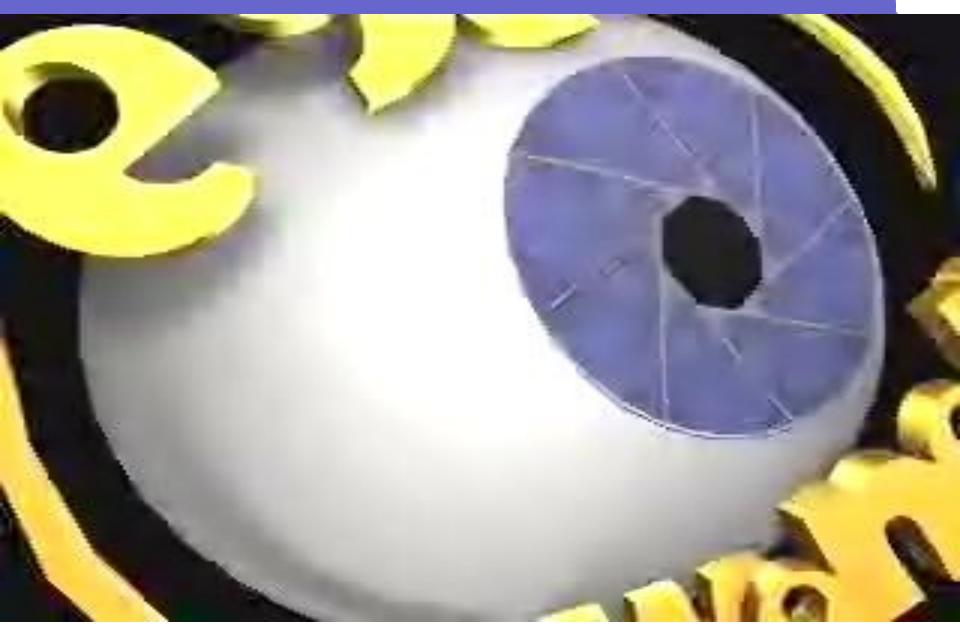
Implementation

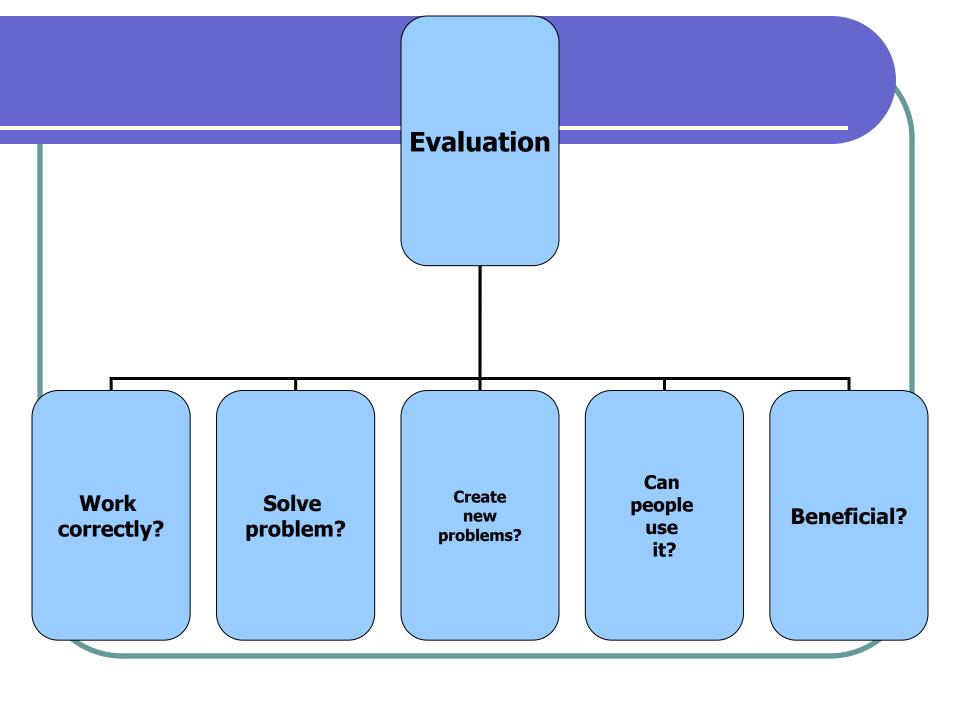
 Taking the chosen design and using it as it is meant to be used.

Evaluation

 The product or solution is looked at while it is in use. http://www.unitedstreaming.com/>

Eye Wonder: Electric Car





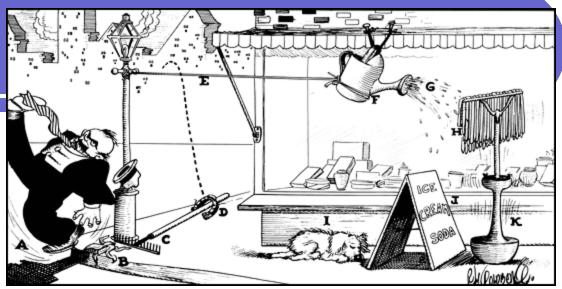
Can teachers use technological design to help them solve the

Closure: name the steps in Technological Design

- Problem Identification
- 2. Solution Design
- 3. Implementation of the Solution
- Evaluation of the product or solution to the problem

Technological design

http://www.rubegoldberg.com/



How to Keep Shop Windows Clean

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Rube Goldberg stands in front of an x-ray and sees an idea inside his head showing how to keep shop windows clean.

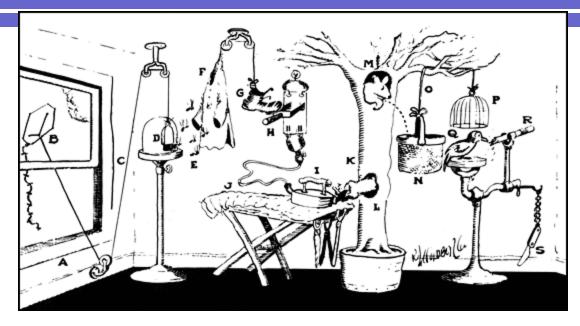
Passing man (A) slips on banana peel (B) causing him to fall on rake (C). As handle of rake rises it throws horseshoe (D) onto rope (E) which sags, thereby tilting sprinkling can (F). Water (G) saturates mop (H). Pickle terrier (I) thinks it is raining, gets up to run into house and upsets sign (J) throwing it against non-tipping cigar ash receiver (K) which causes it to swing back and forth and swish the mop against window pane, wiping it clean. If man breaks his neck by fall move away before cop arrives.

Simplified Pencil Sharpener

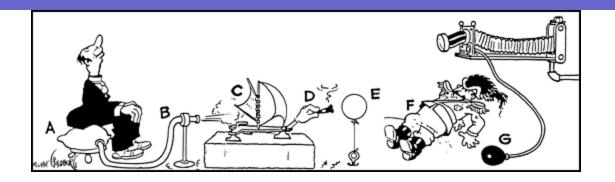
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Rube Goldberg gets his think-tank working and evolves the simplified pencil-sharpener. Open window (A) and fly kite (B). String (C) lifts small door (D) allowing moths (E) to escape and eat red flannel shirt (F). As weight of shirt becomes less, shoe (G) steps on switch (H) which heats electric iron (I) and burns hole in pants (J). Smoke (K) enters hole in tree (L), smoking out opossum (M) which jumps into basket (N), pulling rope (O) and lifting cage (P), allowing woodpecker (Q) to chew wood from pencil (R), exposing lead. Emergency knife (S) is always handy in case opossum or the woodpecker gets sick and can't work.



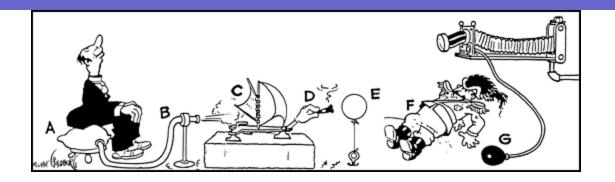
Picture Snapping Machine

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As you sit on pneumatic cushion (A), you force air through a tube (B) which starts ice boat (C), causing lighted cigar butt (D) to explode balloon (E). Dictator (F), hearing loud report, thinks he's been shot and falls over backward on bulb (G), snapping picture!



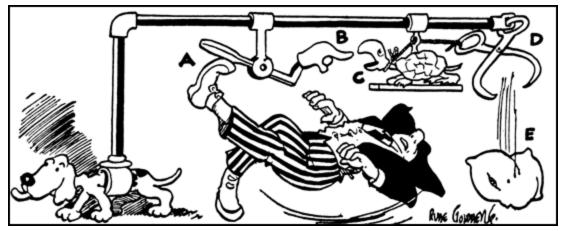
Picture Snapping Machine

<< previous

back to gallery

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As you sit on pneumatic cushion (A), you force air through a tube (B) which starts ice boat (C), causing lighted cigar butt (D) to explode balloon (E). Dictator (F), hearing loud report, thinks he's been shot and falls over backward on bulb (G), snapping picture!



Safety Device for Walking on Icy Pavements << br/>back to gallery

next >>

When you slip on ice, your foot kicks paddle (A), lowering finger (B), snapping turtle (C) extends neck to bite finger, opening ice tongs (D) and dropping pillow (E), thus allowing you to fall on something soft.





Designer Cyrene Quiamco continues to impress with her highly innovative and unique designs. Earlier we covered the **DOT**, a <u>hybrid</u> of a cellphone and an ear device, and now the designer has yet again popped up with an impressive mobile phone that helps the users to be in a good shape, for they are required to have a stroll, jog or shake to juice up the device. Hailed as the "Stix," the cellphone makes use of kinetic energy, allowing the users to adhere to an environmentally friendly lifestyle without compromising on the latest technology. Featuring a flexible design, with touch sensitive LCD strip and permanent hand number buttons, the Stix safely attaches on a belt clip, purse strap or even your wrist to receive the optimum kinetic exposure for recharge.





>>>INCOMING CALL: CYRENE

Camera Projector



Attach on belt clip, purse strap, wrist, etc. to get the maximum kenetic exposure for recharge

Touch sensitive LCD strip

flexible body design allows the Stix to attach just about anything





Permanent hard number buttons

The <u>cellphone</u> comes with a built-in pedometer and heart rate monitor that lets users keep up with a healthy lifestyle all the time. It wraps around your wrist to check your pulse rate while having a jog to power the phone. In addition, it incorporates GPS technology to navigate your route and calculate the distance and time between the starting point and your destination. Moreover, the Stix integrates voice dialing capabilities, together with a projector to project numbers on your hand without removing the phone from your ear.

