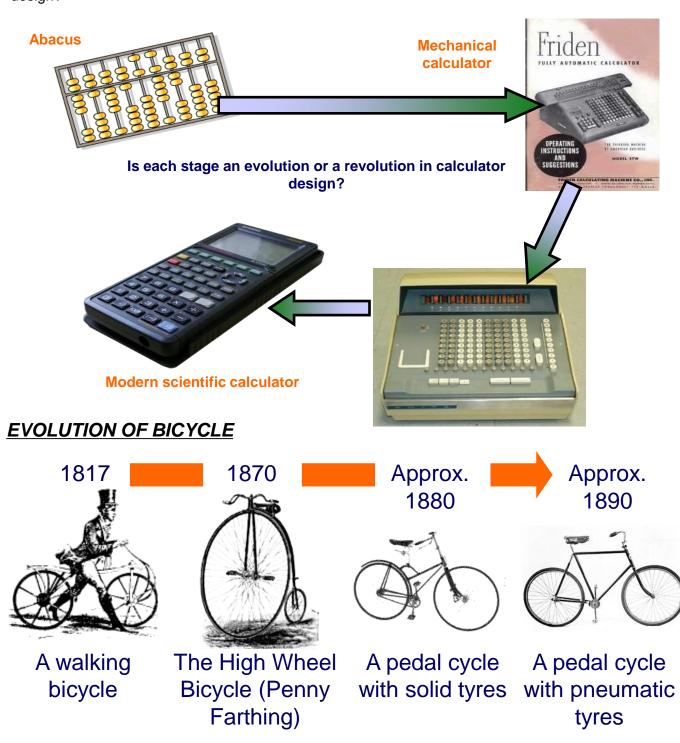
EVOLUTION OR REVOLUTION



Most products develop in an **evolutionary** way. They slowly change into new forms over time, as designers produce variations on existing designs.

However, some products develop in a **revolutionary** way. An innovation or new technology results in a wholly new and original product that can have a big effect on society.

<u>TASK:</u> Under each calculator write whether each stage is an evolution or a revolution in calculator design?



MARKET PULL AND TECHNOLOGICAL PUSH

DESIGN & TECHNOLOGY

Products are developed in response to two main influences:

Market pull

A need or desire emerges in society. This prompts designers to begin to search for a solution to this 'gap in the market'.

For example, the increase in RSI (repetitive strain injuries) led to a need for padded mouse mats.



Technological push

New developments in technology or improvements in knowledge stimulate new solutions to existing problems.



For example, new technology has led to mp3 players replacing personal CD players.

Market pull often causes products to develop in an evolutionary way.

- •Consumers create the demand.
- •Products usually evolve gradually from one form to another.
- •The technology driving the product usually exists already.
- •Products created from a market demand are often re-styled versions of older products.

Technological push tends to cause revolutionary development.

- •A new technology becomes available.
- •This technology offers new ways to solve problems, and creates opportunities to make
- •wholly new products.
- •New products are made which were not possible before the technological advancement.

<u>TASK:</u> Using your evolution timeline of (a) a mobile phone (B) a personal music device (Sony Walkman / MP3) if they have developed due to technological push and what the new technology allowed the product to do?

TASK: Research two products that have developed due to market pull (i.e Dyson Hoover)

TASK: Research two products that have developed due to technological push



<u>TASK:</u> Develop an evolution timeline of (a) a mobile phone (B) a personal music device (Sony Walkman / MP3) and list if each stage is evolution or revolution, market pull or technological push. Add images and dates if possible