



6+ with Adult Assistance

### INVENTIONS BATTLE (TOP TRUMPS)

Inventions from the past have helped shape the world we live in today, but how will they fair against each other?

You may be surprised to discover when some of your everyday items were invented!

#### YOU WILL NEED:

- This document printed onto A4 card (4 pages)
- Colouring pens or pencils
- Scissors
- 2 or more players

#### INSTRUCTIONS:

1. Colour in each card using colouring pens or pencils and draw a picture for each invention.
2. Cut out your cards and get battling!

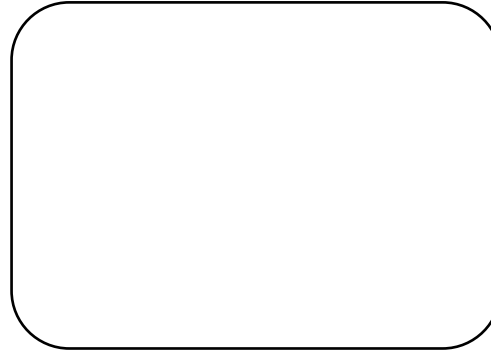
#### HOW TO PLAY:

1. Shuffle the cards and divide them equally between players.
2. Stack your cards on top of each other so only the top card is visible. Make sure your cards are not seen by other players. Decide which player begins the game.
4. Going round in a circle take it in turns to read a **'stat'** from your top card, e.g. *"my card is 807 years old"*. All other players then read the same 'stat' from their top card. The player with the highest number wins and takes the other cards from the other players. These cards must be added to the bottom of the player's card pile. **NOTE:** If a 'stat' matches another, choose another 'stat' or every player moves to the next card in their pile.
5. Play then moves clockwise to the next player.
6. The player who takes all their opponents cards wins.



### FIRST STEAM ENGINE

Introduced by: Thomas Newcomen  
The design was improved by James Watt

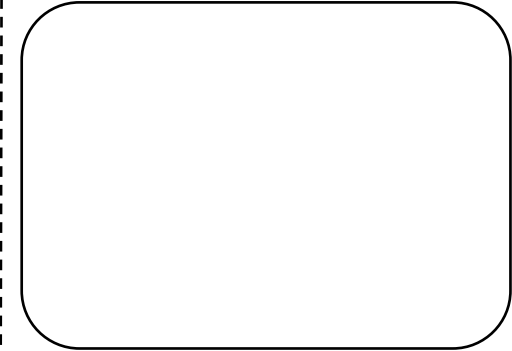


AGE	310yrs
EVERYDAY IMPACT	30
ENGINEERING IMPACT	90
CROFTON RATING	9



### LANCASHIRE BOILER

Invented by: William Fairbairn  
We have 2½ at Crofton!

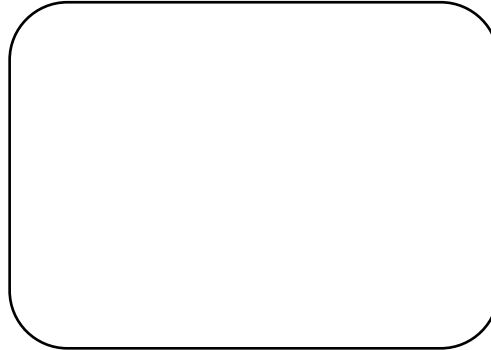


AGE	178yrs
EVERYDAY IMPACT	30
ENGINEERING IMPACT	90
CROFTON RATING	10



### THE CROFTON VOLUNTEER

Invented by: The K & A Canal Trust  
Without volunteers Crofton wouldn't stand

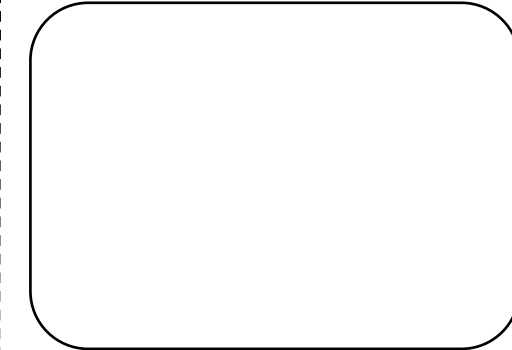


AGE	56yrs
EVERYDAY IMPACT	100
ENGINEERING IMPACT	100
CROFTON RATING	8



### THE TEA BAG

Invented by: Thomas Sullivan  
Crofton volunteers run on tea (and coffee)

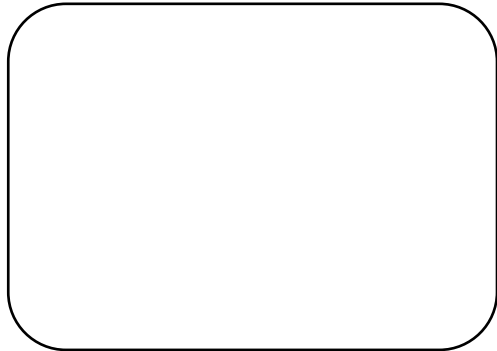


AGE	114yrs
EVERYDAY IMPACT	90
ENGINEERING IMPACT	30
CROFTON RATING	10



### MAGNIFYING GLASS

**Invented by: Roger Bacon**  
Helped us look closer at many different things

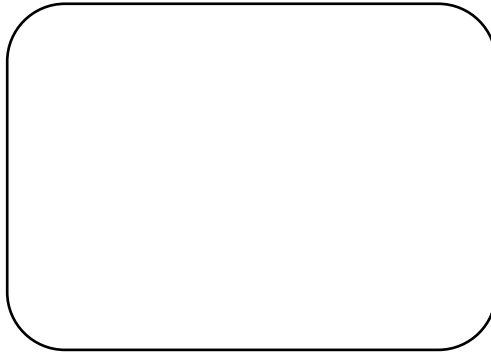


**AGE** 807yrs  
**EVERYDAY IMPACT** 20  
**ENGINEERING IMPACT** 60  
**CROFTON RATING** 4



### FLUSHING TOILET

**Invented by: Sir John Harrington**  
Many years ago toilets used to be outside the house



**AGE** 426yrs  
**EVERYDAY IMPACT** 100  
**ENGINEERING IMPACT** 80  
**CROFTON RATING** 6



### ICE CREAM MAKER

**Invented by: Nancy Johnson**  
Do you like a classic strawberry or perhaps a bright blue bubble-gum?



**AGE** 179yrs  
**EVERYDAY IMPACT** 30  
**ENGINEERING IMPACT** 70  
**CROFTON RATING** 5



### TOOTHBRUSH

**Invented by: William Addis**  
Twice a day for two minutes and don't forget to floss!

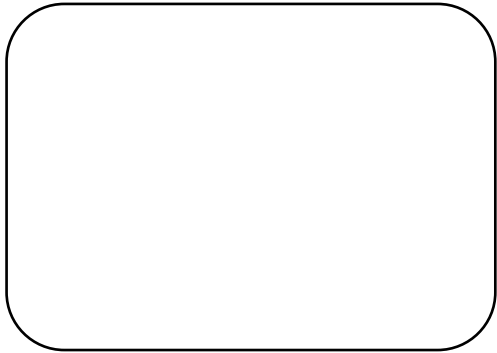


**AGE** 252yrs  
**EVERYDAY IMPACT** 100  
**ENGINEERING IMPACT** 50  
**CROFTON RATING** 8



### HOVERCRAFT

**Invented by: Christopher Cockerell**  
Hovercrafts are also known as air-cushion vehicles or ACVs

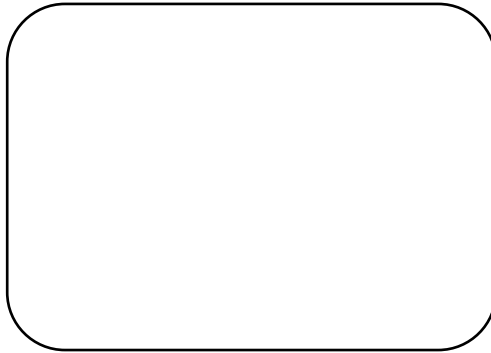


**AGE** 69yrs  
**EVERYDAY IMPACT** 10  
**ENGINEERING IMPACT** 50  
**CROFTON RATING** 4



### TIN CAN FOR FOOD

**Invented by: Peter Durand**  
Where would we be without baked beans!

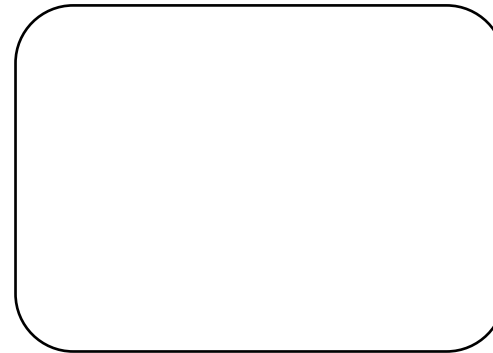


**AGE** 212yrs  
**EVERYDAY IMPACT** 60  
**ENGINEERING IMPACT** 30  
**CROFTON RATING** 3



### CHOCOLATE BAR

**Invented by: JS Fry and Sons**  
The same company who made the Chocolate Orange

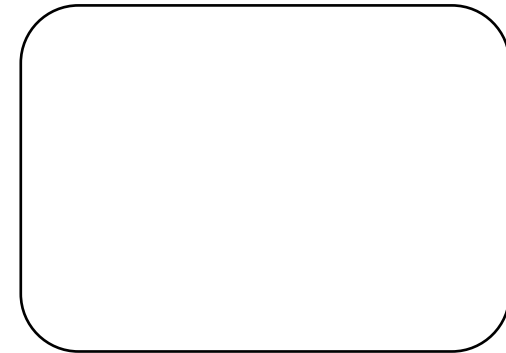


**AGE** 162yrs  
**EVERYDAY IMPACT** 80  
**ENGINEERING IMPACT** 40  
**CROFTON RATING** 9



### LIGHT SWITCH

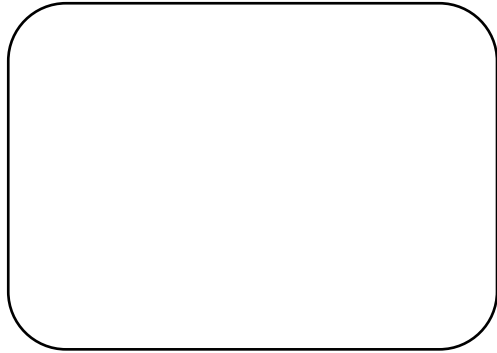
**Invented by: John Henry Holmes**  
How many light switches can you count in your home?



**AGE** 138yrs  
**EVERYDAY IMPACT** 100  
**ENGINEERING IMPACT** 90  
**CROFTON RATING** 7

## STEAM LOCOMOTIVE

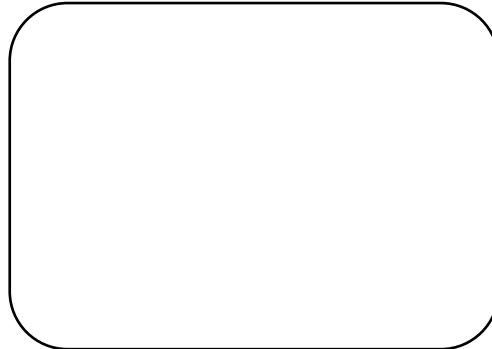
**Invented by: Richard Trevithick**  
Changed the transport industry forever!



**AGE** 219yrs  
**EVERYDAY IMPACT** 50  
**ENGINEERING IMPACT** 90  
**CROFTON RATING** 8

## FIRST ENGLISH CAR

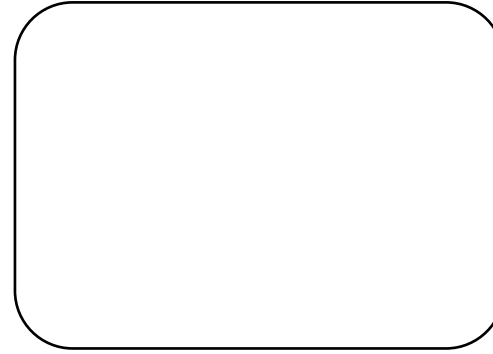
**Invented by: Frederick Bremer**  
Fredrick was only 22 when his incomplete car first ran on the road



**AGE** 130yrs  
**EVERYDAY IMPACT** 90  
**ENGINEERING IMPACT** 90  
**CROFTON RATING** 6

## FIRE EXTINGUISHER

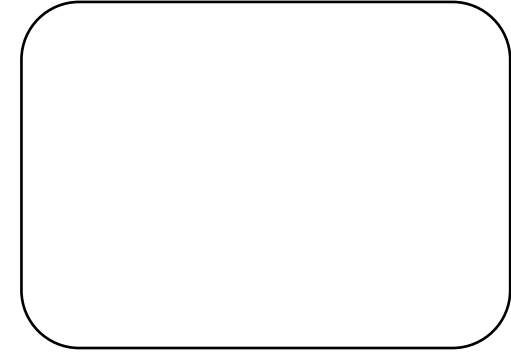
**Invented by: Captain William Manby**  
A very important piece of equipment



**AGE** 204yrs  
**EVERYDAY IMPACT** 60  
**ENGINEERING IMPACT** 90  
**CROFTON RATING** 7

## ELECTRIC VACUUM CLEANER

**Invented by: Hubert Cecil Booth**  
Carpets beware!



**AGE** 121yrs  
**EVERYDAY IMPACT** 100  
**ENGINEERING IMPACT** 60  
**CROFTON RATING** 5

## THE WORLD WIDE WEB

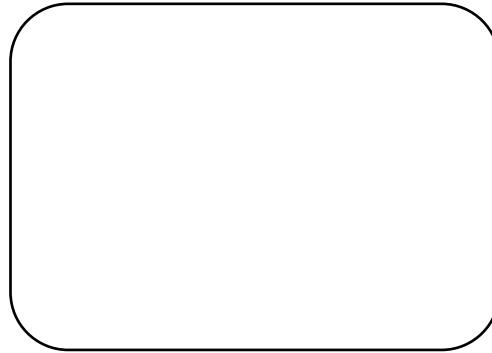
**Invented by: Tim Berners-Lee**  
The pool of information that is the internet



**AGE** 33yrs  
**EVERYDAY IMPACT** 100  
**ENGINEERING IMPACT** 90  
**CROFTON RATING** 9

## CONCORDE

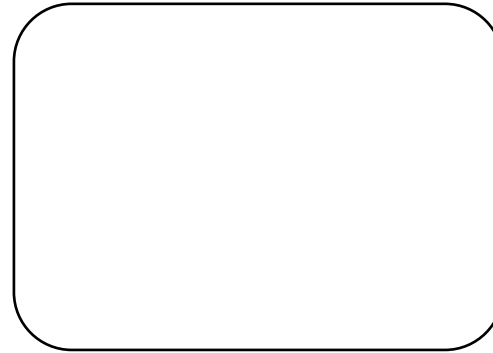
**Co Designer: Sir James Hamilton**  
The worlds first supersonic commercial plane



**AGE** 212yrs  
**EVERYDAY IMPACT** 60  
**ENGINEERING IMPACT** 30  
**CROFTON RATING** 3

## FIRST POWERED FLIGHT

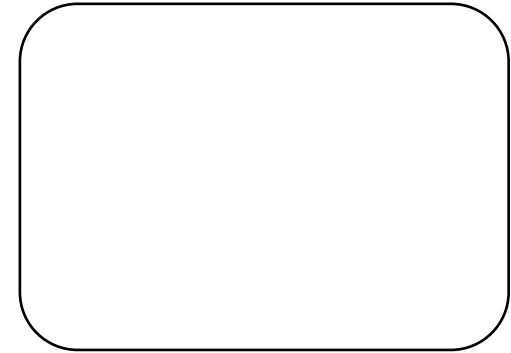
**Invented by: John Stringfellow**  
The first powered flight in the world at a height of 9.1 metres.



**AGE** 174yrs  
**EVERYDAY IMPACT** 20  
**ENGINEERING IMPACT** 90  
**CROFTON RATING** 9

## STAINLESS STEEL

**Invented by: Harry Brearley**  
Used in construction as well as household objects like knives and forks



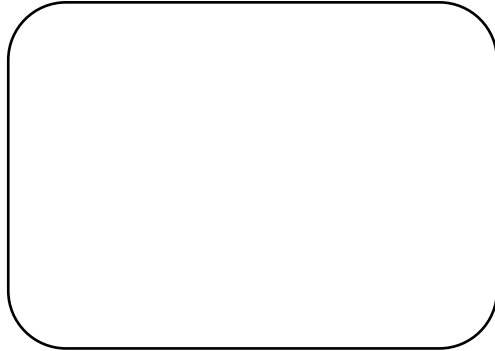
**AGE** 109yrs  
**EVERYDAY IMPACT** 100  
**ENGINEERING IMPACT** 100  
**CROFTON RATING** 10



## WATER PRESSURE DISHWASHER

Invented by: Josephine Cochran

Everyone hates the washing up don't they



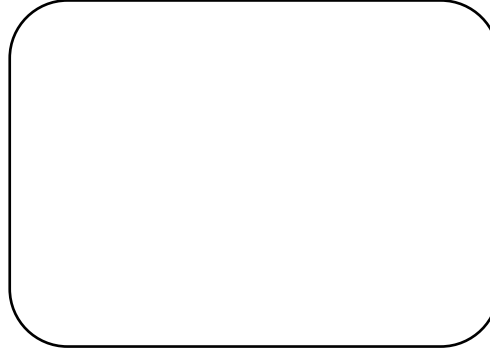
AGE	136yrs
EVERYDAY IMPACT	90
ENGINEERING IMPACT	80
CROFTON RATING	3



## THE PACKET SANDWICH

Invented by: Marks and Spencer

Friends of Percy Pig and Colin the Caterpillar



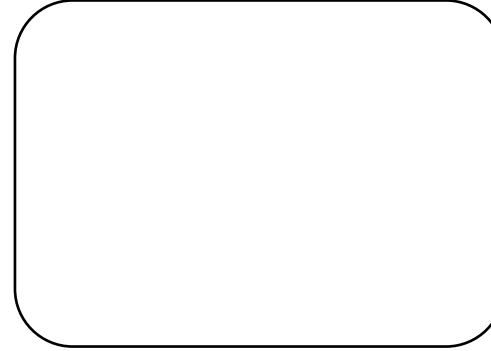
AGE	42yrs
EVERYDAY IMPACT	70
ENGINEERING IMPACT	20
CROFTON RATING	7



## LIFE RAFT

Invented by: Maria Beasley

Four were used on the Titanic



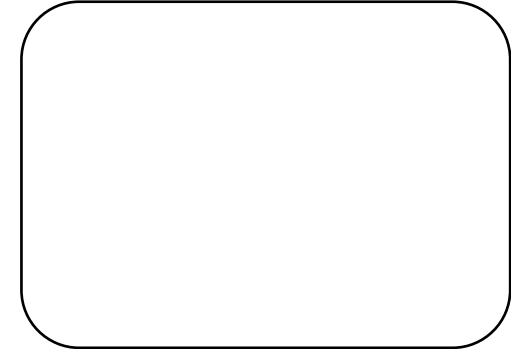
AGE	140yrs
EVERYDAY IMPACT	50
ENGINEERING IMPACT	80
CROFTON RATING	10



## FIRE ESCAPE

Invented by: Anna Connolly

Changed New York building regulations forever



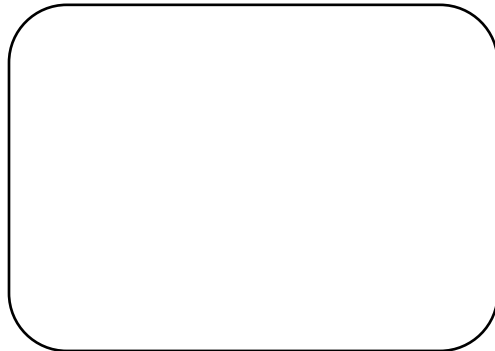
AGE	135yrs
EVERYDAY IMPACT	100
ENGINEERING IMPACT	60
CROFTON RATING	10



## WINDSCREEN WIPERS

Invented by: Mary Anderson

Essential in wet weather!



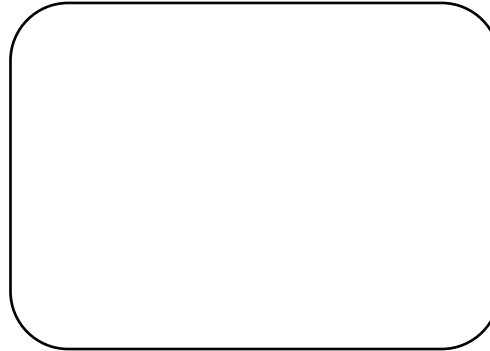
AGE	119yrs
EVERYDAY IMPACT	20
ENGINEERING IMPACT	50
CROFTON RATING	3



## LAWN MOWER

Invented by: Edwin Beard Budding

The smell of freshly cut grass in the summer



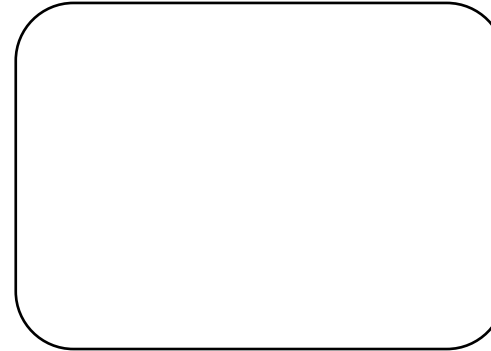
AGE	192yrs
EVERYDAY IMPACT	80
ENGINEERING IMPACT	60
CROFTON RATING	8



## BULLET-PROOF FIBER (KEVLAR)

Invented by: Stephanie Kwolek

A fibre that has saved countless lives, but is also used in canoes and frying pans



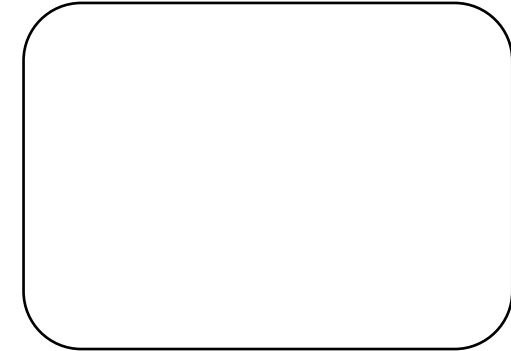
AGE	56yrs
EVERYDAY IMPACT	80
ENGINEERING IMPACT	100
CROFTON RATING	10



## THE CHRISTMAS CARD

Introduced by: Sir Henry Cole

The classic festive scenes of snow, Christmas trees and lights



AGE	179yrs
EVERYDAY IMPACT	80
ENGINEERING IMPACT	20
CROFTON RATING	3