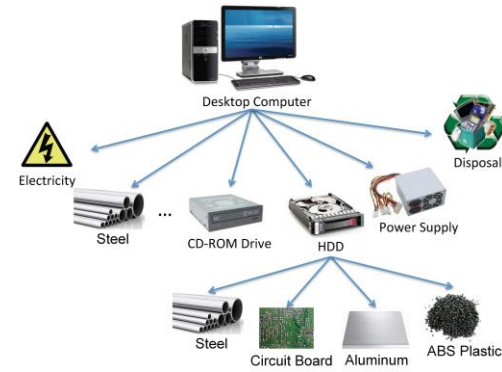


# DESIGNERS, MANUFACTURERS AND PRODUCT SUSTAINABILITY

Mr Oyebode – Design and Technology  
(Resistant Materials)



Energy	
Manufacturer	Fridge-Freezer
Model	
More efficient	<b>A</b>
B	
C	
D	
E	
F	
Less efficient	<b>G</b>
Energy consumption kWh/year <small>(Based on standard test results for 24h)</small>	<b>325</b>
<small>Actual consumption will depend on how the appliance is used and where it is located.</small>	
Fresh food volume l	190
Frozen food volume l	126
Noise <small>(dB(A) re 1 pW)</small>	<b>43</b>
<small>Further information is contained in product brochures</small>	
<small>Norm EN 153 May 1990 Refrigerator Label Directive 94/10/EC</small>	



# Learning objective

Students to investigate that designers have a responsibility to create products that are more sustainable and have less impact on the environment throughout their life cycle.

# Introduction

- Many manufacturers are accused of encouraging people to dispose of products which work perfectly, in order to buy a new product. The mobile phone is a good example of a product with built-in obsolescence.
- Many people buy a new phone every 12 or months, because a 'better' phone is available. Their old phone may still work perfectly, but it is no longer desirable to them, and is often thrown away.

## Do Now Activity – Functions of a mobile phone

- List all of the mobile phone's (pictured) functions.
- For each function, state how often you use that function.





More efficient	
A	A
B	
C	
D	
E	
F	
Less efficient	
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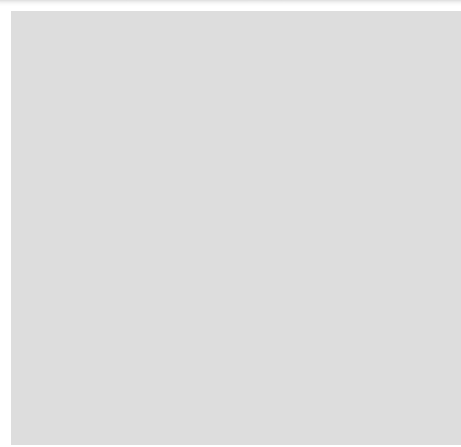
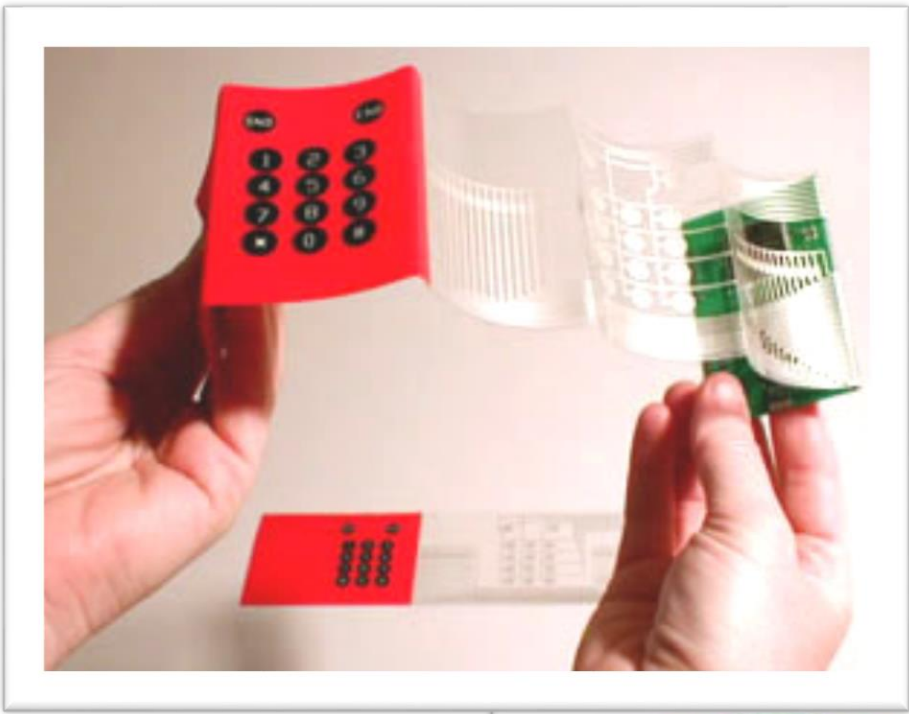


## Starter Activity

- List the features you would look for in a new phone.
- Thinking about the law and recycling, what steps would you have to take to make sure your new phone meets the requirements?

# Main Activity

Working in pairs,  
design a mobile phone which is  
either disposable  
or sustainable



# Have you met the learning objective?

Students to investigate that designers have a responsibility to create products that are more sustainable and have less impact on the environment throughout their life cycle.

# Plenary

