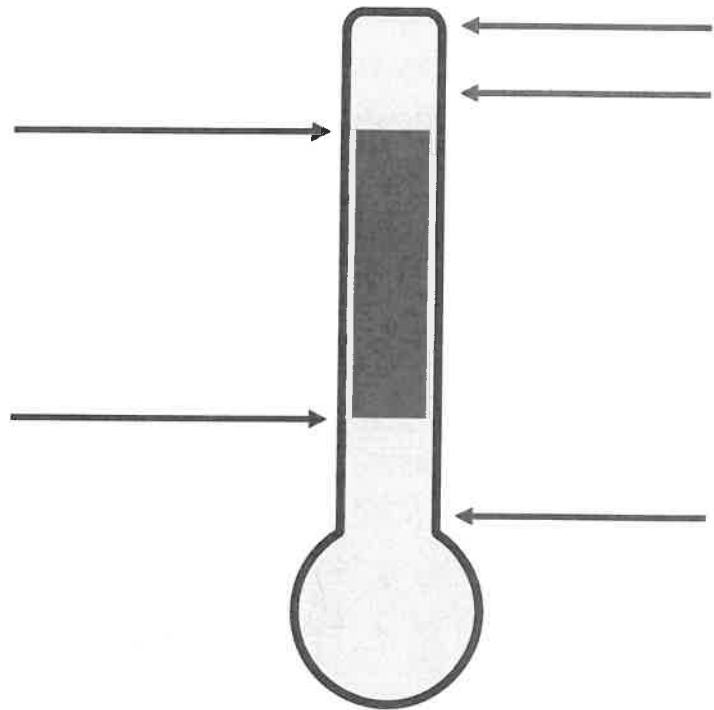


Food

Danger Zone

1. **Label** the **critical temperatures** on the thermometer.
You should include:

The Danger Zone
Temperature water boils at
Temperature of cooked food
Temperature water freezes at



2. What happens to bacteria at **freezing** temperatures? _____
3. What happens to bacteria above **75°C**? _____
4. What are the **four conditions** bacteria need to multiply?

5. What is the **scientific term** for how **bacteria multiply**?

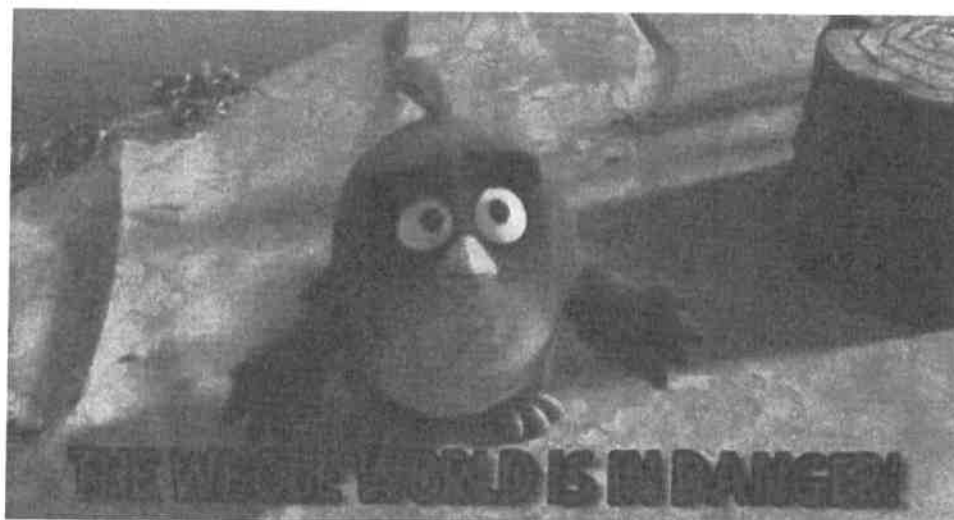
6. Describe **high risk** foods:

7. Describe **low risk** foods:

8. Give four **examples** of **high risk** foods:

9. Give four **examples** of **low risk** foods:

10. **Discuss** the ways you could **prevent bacterial growth**:



Lesson 1e: Danger Zone



To show progress today I could ...



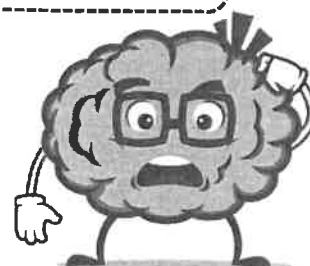
Accurately identify
critical temperatures
linked to food
poisoning **bacteria**,
e.g. the 'Danger Zone'.

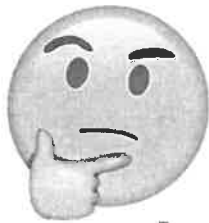
Describe how **bacteria**
multiplies and **identify**
high/low **risk foods**.

Knowing all this, I am
able to **suggest** ways
to **store** and **prepare**
food safely to **prevent**
bacterial growth.

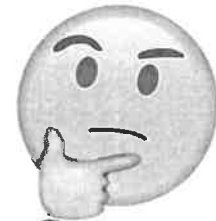
Danger Zone:
temperature range of
5-63°C in which
bacteria grows rapidly

Binary Fission:
how bacteria
reproduce and multiply





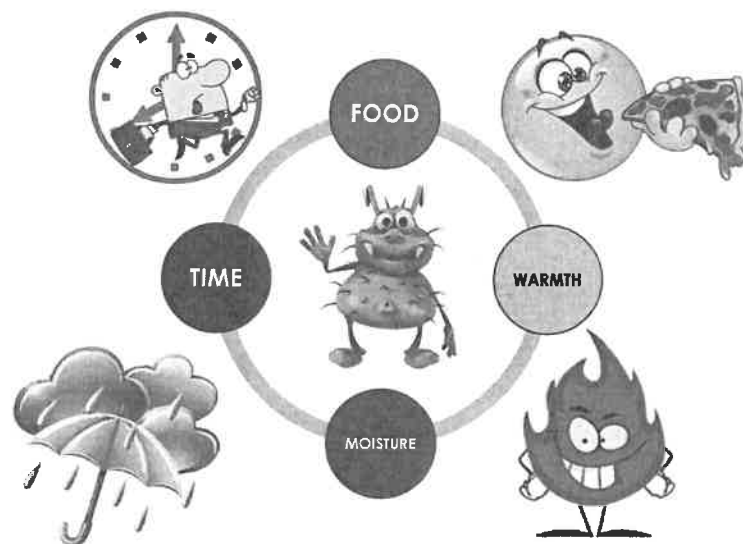
Think Task:



What 4 things do humans need to grow?

Discuss with the person next to you.

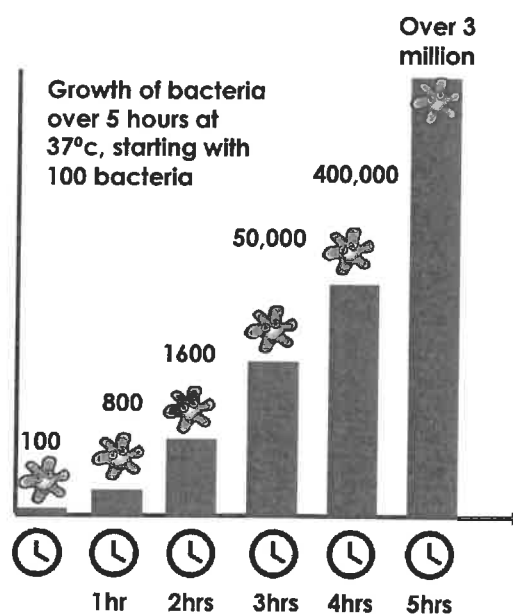
Bacteria need 4 things to grow:



Binary Fission

How bacteria grows:

Bacteria reproduce by **binary fission**. In this process the **bacterium**, which is a single cell, divides into two identical daughter cells. **Binary fission** begins when the DNA of the **bacterium** divides into two (replicates).



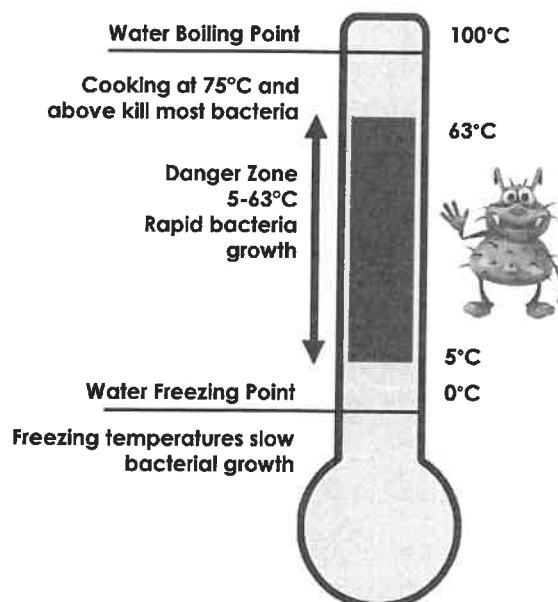
The Danger Zone



The temperature range within which the multiplication of most foodborne **pathogenic** bacteria is possible.

5°C to 63°C

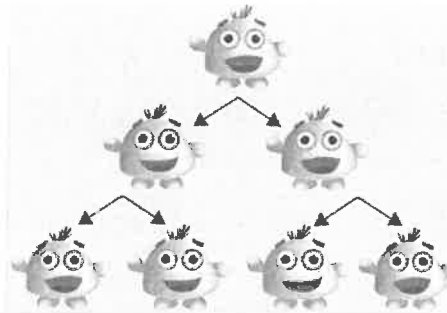
Most rapid multiplication occurs between **20°C and 50°C**.



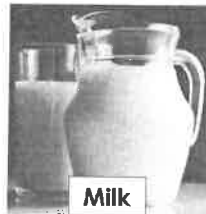
High Risk Foods

These foods **support** the **multiplication** of harmful **bacteria**.

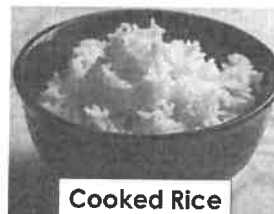
These foods are usually **high** in **protein** and **moisture**.



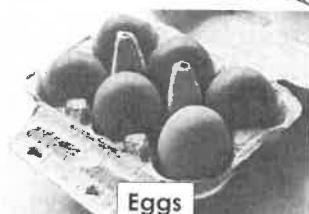
Chicken



Milk



Cooked Rice



Eggs

Low Risk Foods

Bacteria are **not able to multiply** in dry food or food containing high concentrations of sugar, salt, acid (vinegar - pickled) and other preservatives.



They are stored in **cool dry** places.



Cereals



Dried Pasta



Bread



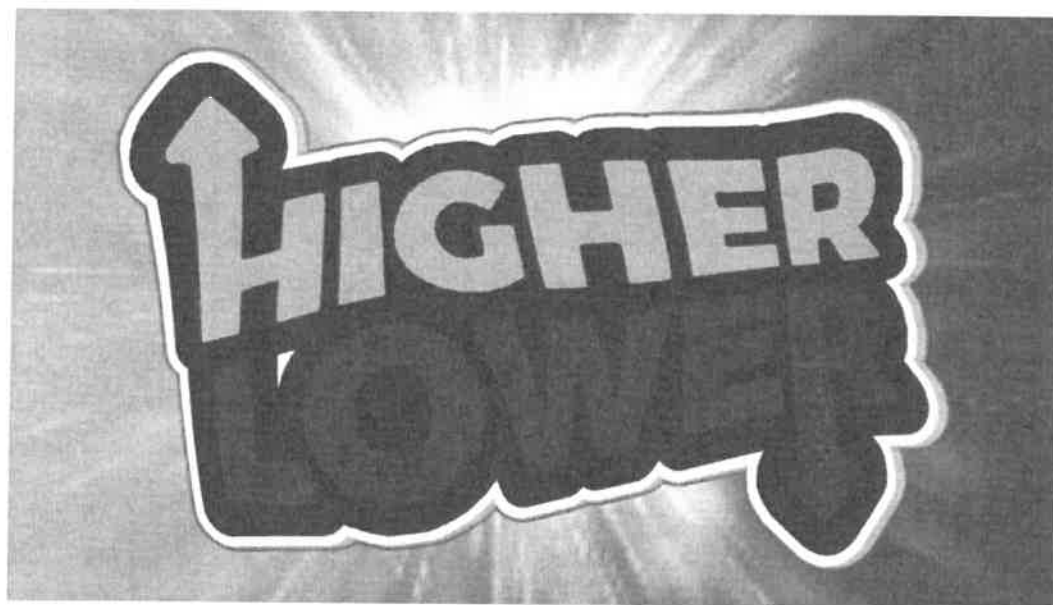
Biscuits



Jam



Tinned Food



Low risk

Because its not cooked,
no moisture.



High Risk

It is ready to eat, high in moisture and high in protein.



Low risk

It is not high in moisture and low protein.



High Risk

It is ready to eat, moist and high in protein.



High Risk

It is ready to eat, moist and high in protein.



High Risk

It is ready to eat, moist
and high in protein.



Low Risk

As long as it stored correctly.
It is not ready to eat.

1. High risk foods
2. Low risk foods
3. Danger zone
4. Binary Fission
5. Temperature
6. Protein
7. Moisture
8. Sugar
9. Salt
10. Acid (vinegar)

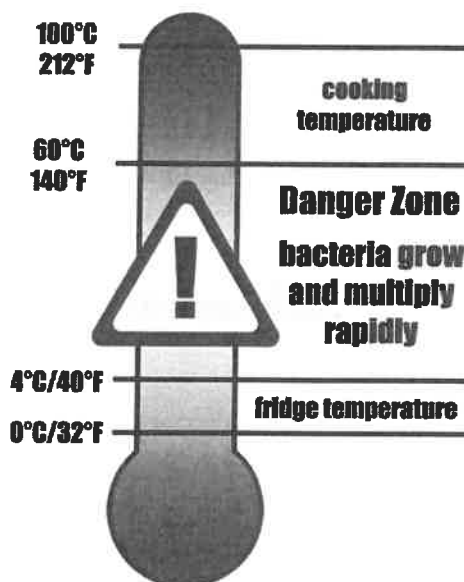
Task: Try and use each of the terms in a sentence.

E.g. **High risk** foods are usually high in **protein** and **moisture**.



Create a 'Danger Zone' sign for your Food Technology room fridge.

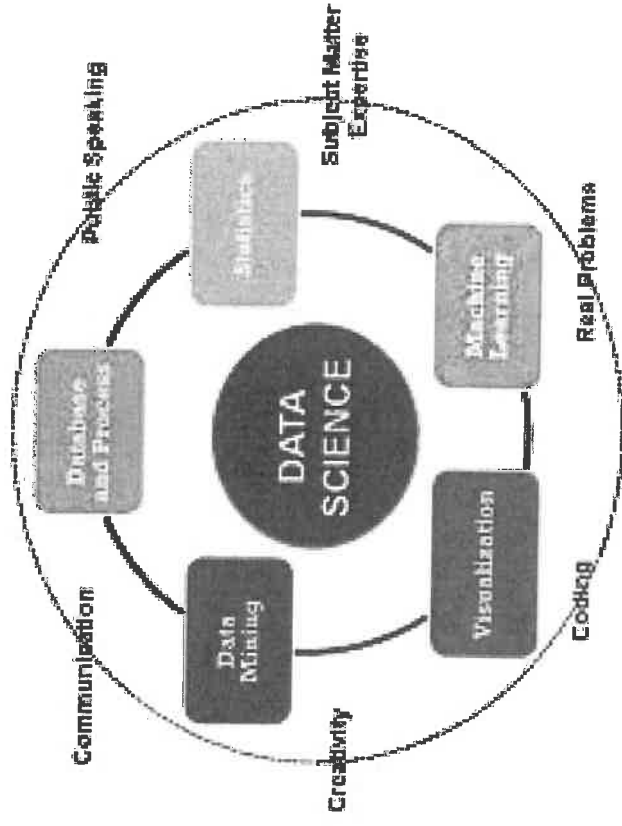
It must feature the critical temperatures in °C and be accurate.



Deadline:
Your homework is due in:



Different types of data



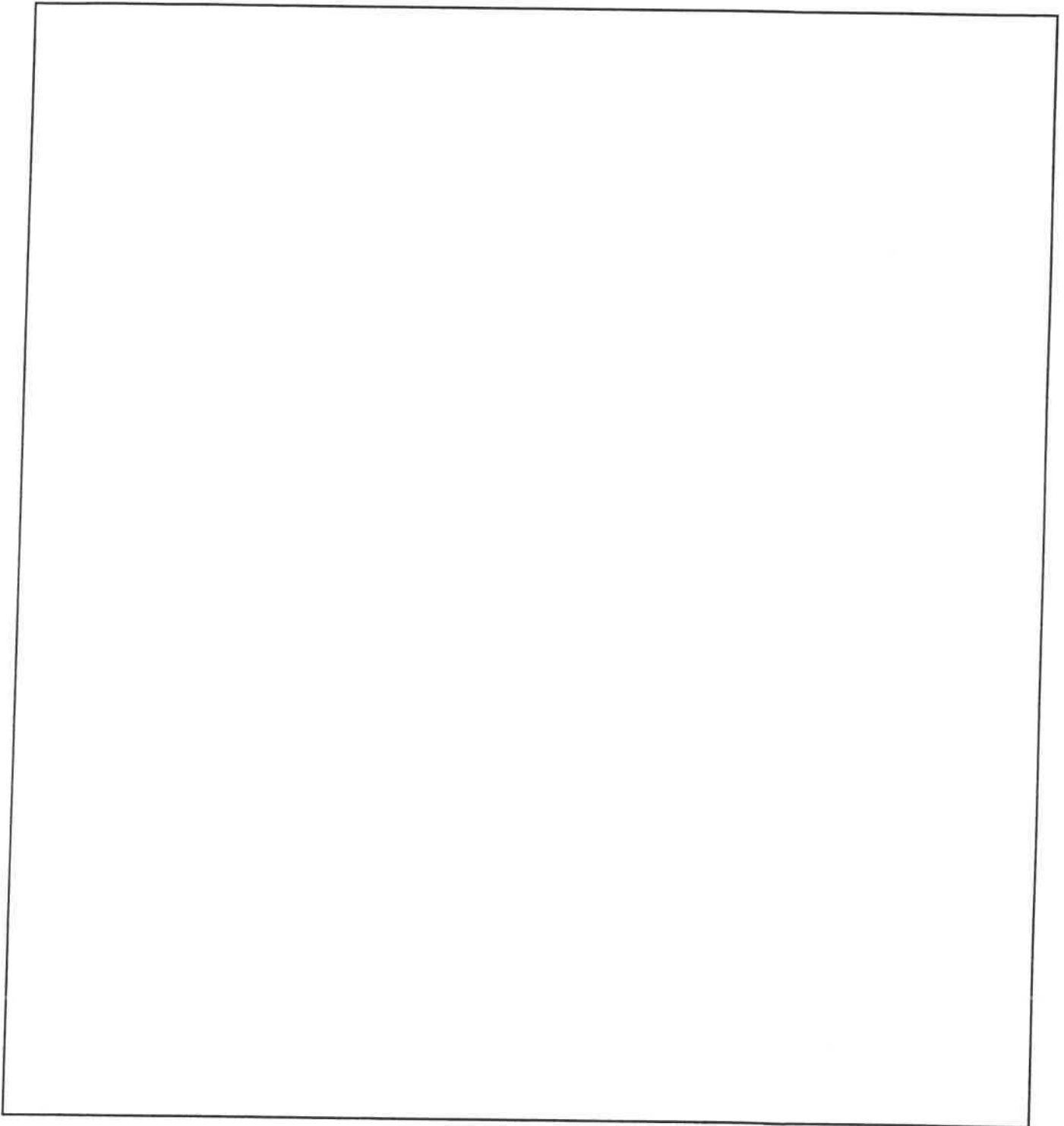
Challenge Task:

Year 7

Name: _____ **Form:** _____

Design Task:

Choose a piece of clothing in your wardrobe (picture it!). Design 3 ways of reusing and recycling the product.



What is the difference between reusing and up cycling?



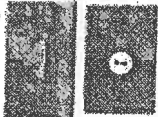
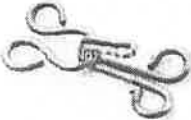



Challenge Task:

Year 7

Name: _____ **Form:** _____

Theory task:

There are many different ways that a textile product can be fastened, complete the following

Picture of fastening	Name the fastening and explain how it works	Name somewhere this is used
		
		
		
		
		
		
		

Explain which fastening above you like best and why:

Challenge Task:

Year 7

Name: _____ **Form:** _____

Design task:

Recycling

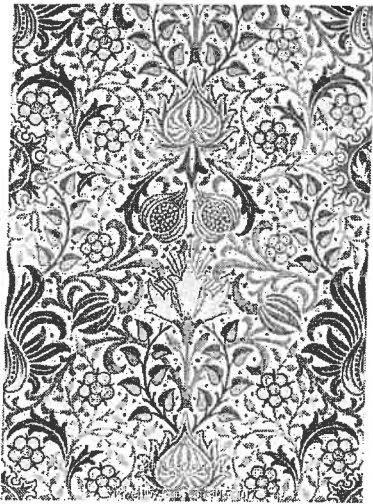
What am I learning: Understand how waste products (clothes we don't want any more) can be reused to make desirable items	Include a front and back view	Task What am I doing: Design a dress from recycled products, choose a piece of clothing, redesign it into something new and exciting, label your work with fabrics and accessories, give reasons for choice

Challenge Task:

Year 7

Name: _____ Form: _____

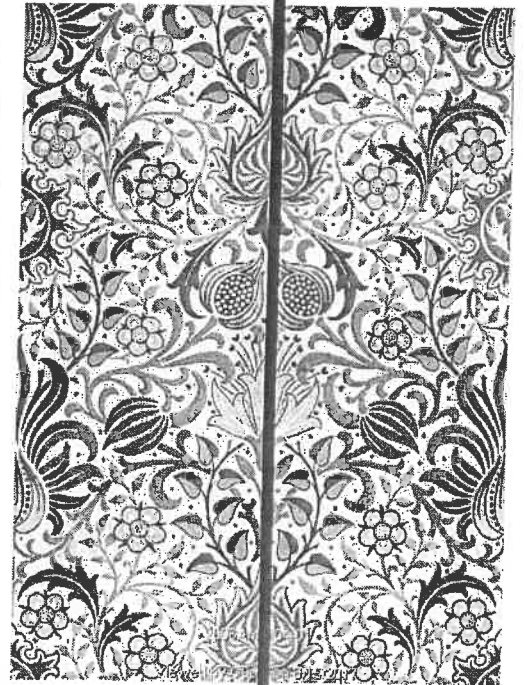
Design Task: symmetry – Reflection



To the left is a wall paper design by William Morris called 'Persian Wallpaper' you can see how the section is repeated by **reflection**, this is called **reflective symmetry**

Task: copy the reflection to the left, use a pencil first, then colour the design in.

Tip: use a ruler to help plan out the work, looking at where the follower and leaves should go



Challenge Task:

Year 7

Name: _____ Form: _____

Design task: Finding an identity



Design a logo for a clothes shop that you are about to open

The logo should:

- Reflect the image if the company
- Be original and exciting
- Be easy to reproduce
- Be attractive
- Be suitably coloured

Now:

- Aim to create 5 versions of your design
- Try different colour schemes
- Try different styles of font
- Change the shape the logo fits into
- Mirror the name
- Increase or reduce the size of the logo
- Turn the letter round

Think about it:

What other adaptations could you make to your logo

Challenge Task:

Year 7

Name: _____ **Form:** _____

Design task:

Use the template design a suitable top for a school fashion show.

Think about the colours and annotate your design (the fabric you would use and the reasons why)

