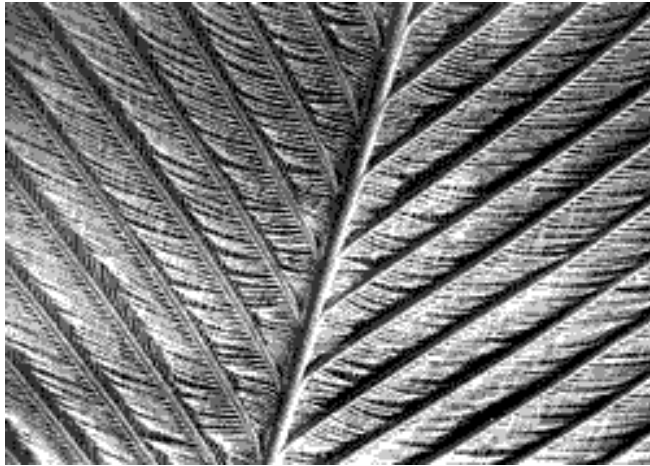


'Waterproof feathers'

Throw some droplets on a water bird flight feather with the help of a dropper.

- Observe what happens and make a drawing here:



- Tick off the good answers:

Droplets roll down on the feather and fall to the floor.

Droplets soak in the feather and disappear.

Droplets stay on the feather.

Droplets take a rounded shape.





- Try on different body feathers.
- Which one insulates best from the moist?:

- ... feathers insulate best from the moist. I know because droplets...



- Try the same on different fabrics (eg., from a raincoat, a cotton towel, a wool cloth, a nylon stocking).
- In your opinion which fabric insulates best from the moist?
 - In my opinion insulates best from the moist.

- Were your predictions right?
 - I was right, ... insulates best from the moist.
 - I was wrong, ... doesn't insulate best from the moist.
- Observe how feathers and fabrics are woven in the microscope. Make a sketch and try to answer the questions bellow:

Duck's feather	Nylon raincoat 
	Cotton towel 
	Wool cloth 
	Silk stocking 

- The duck's feather is **different / similar** to the nylon raincoat weaving because it has ...
- The duck's feather is **different / similar** to the cotton towel weaving because it has ...
- The duck's feather is **different / similar** to wool the clothe weaving because it has ...
- The duck's feather is **different / similar** to the silk stocking weaving because it has ...