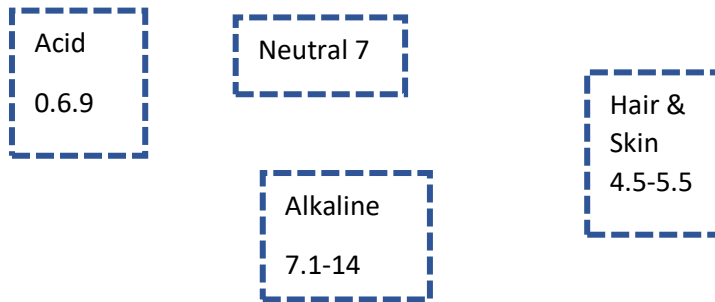


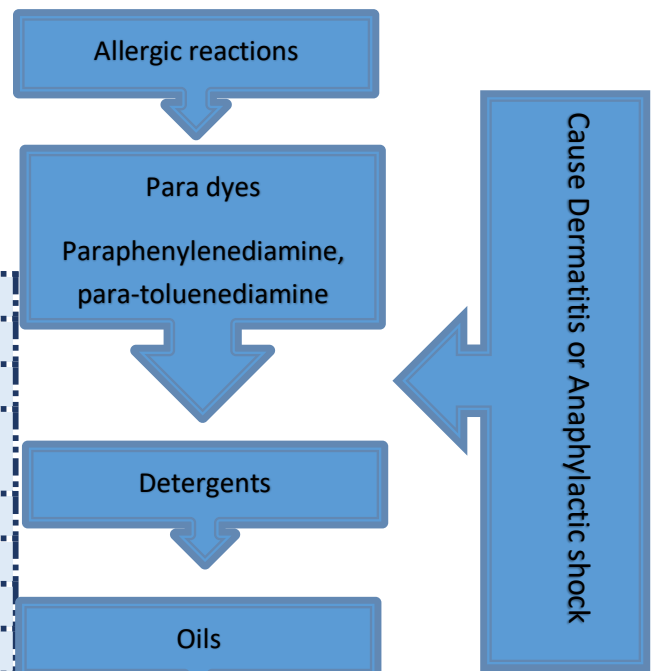
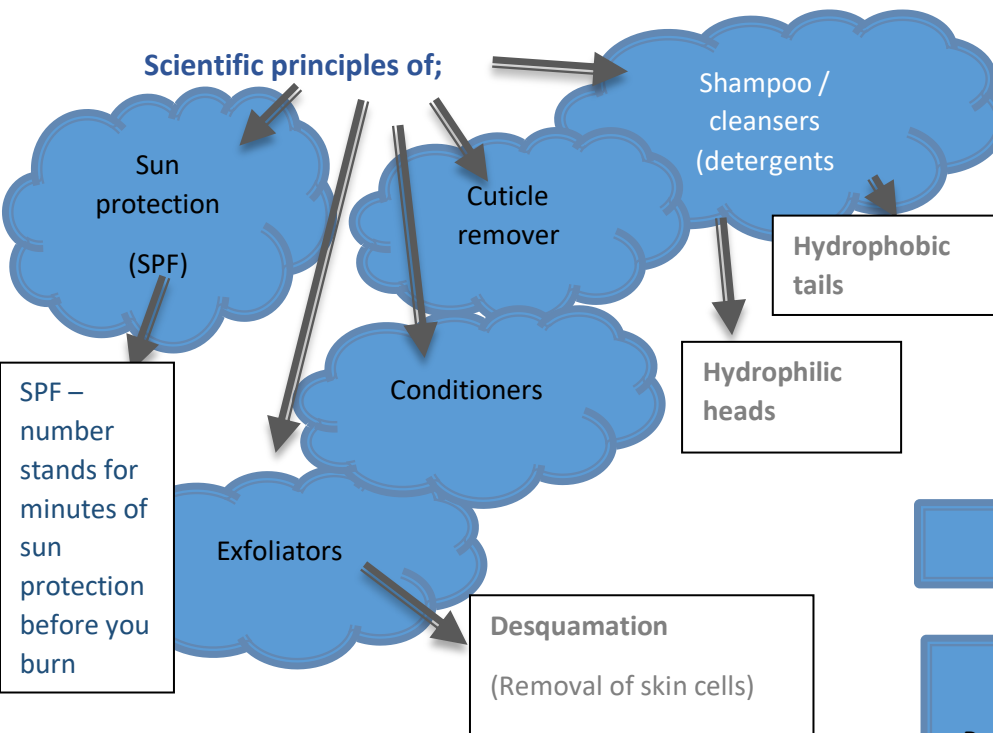
Technical Award in Hair & Beauty Studies 3038 Knowledge organiser 202

Understand chemistry of cosmetics and consider their uses within hair and beauty products

Effects on hair and skin?



Product	Average pH value
Soap	6.9-9.7
Shower gel	5.5
Sun cream	5.5
Skin cleanser	3.2 – 5.8
Astringents/toners	4.5 – 5.5
Moisturisers	6.5 -7.5
Shaving products	6.5 - 8
Depilatory products	7.5 - 9
Exfoliators	7.5 – 8.5
Shampoos	4.4 -8
Lightening products	9 – 10.5
Hydrogen peroxide	4
Perm lotion	7.5 - 9
Hair relaxing agents	10-12
Surface and treatment conditioners	3.5-6
Cuticle remover	11-13
Nail polish remover	11-12
Cuticle cream	6-7.5



Parabens	Preservative
Mineral oils	Occlusive – increase moisture levels
Emollient	Occlusive, smoothing, nourishing
Oxidising agents	Used to create reaction – hydrogen peroxide
Stabilisers	Aids shelf life – mix of ingredients
Antiseptics	Prevents bacteria growth
Humectants	Aids preservation of moisture
UV filters	Absorb or reflect UV rays
Pigments	Addition of colour to products
Emulsifiers	Mix immiscible products
Exfoliators / exfoliation	Remove / removal of dead skin
Astringents	Drying effects - toners
Hydrating	Add moisture

Immiscible – those that will not naturally mix – like oil and water

Hypoallergenic	Reduce allergic reactions
Non-comedogenic	Minimises clogging of pores – anti-acne
Soothing	Calming / reduces Erythema
Regenerating	Encourages cell renewal
Anti-oxidant	Reduces the effects of oxidation (hair) / prevent / reduce free radicals (skin)
Stimulating	Encourage growth / cell repair
Dihydroxyacetone (DHA)	Pigments in tanning lotions
Depilatory	Removal of hair
Paraphenylenediamine	Pigments in hair colourings

Erythema – reddening of the skin

{ Animal Testing }

RSPCA Royal Society for the Prevention of Cruelty to Animals

PETA People for the Ethical Treatment of Animals

Episkin - Reconstructed tissue

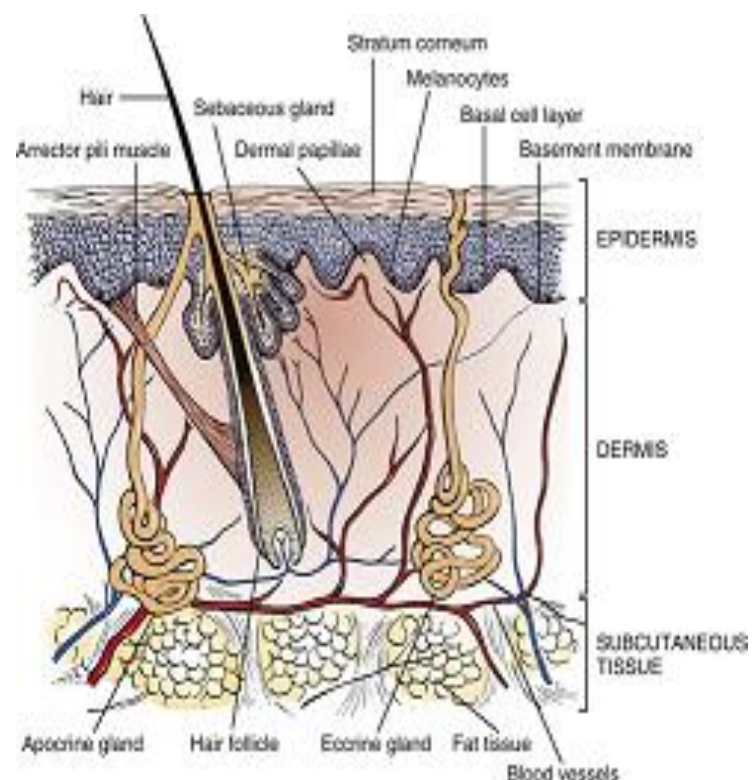
Human trials

Regulations;

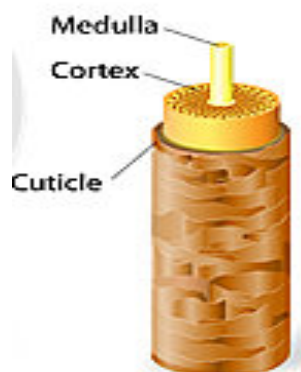
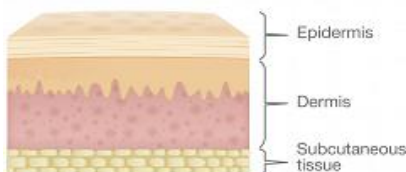
Cosmetic Products (Safety) regulation

Trades Description Act / Sale of Goods Act

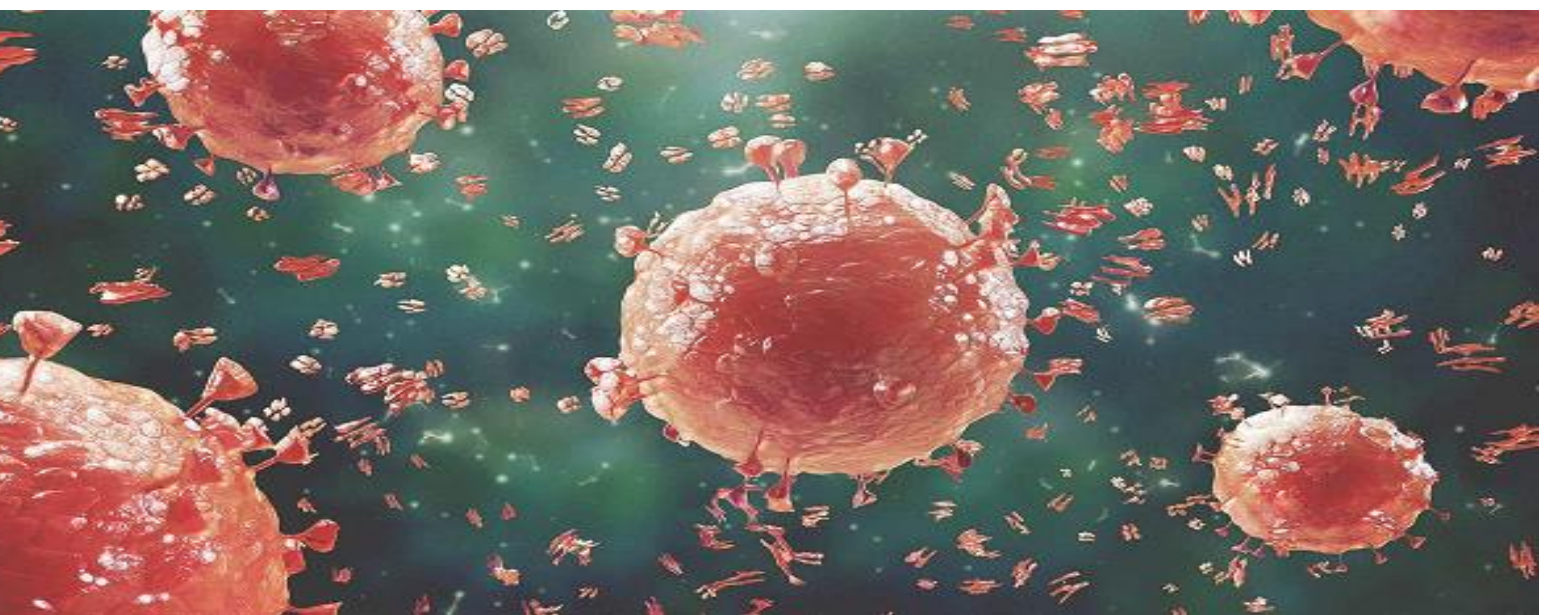
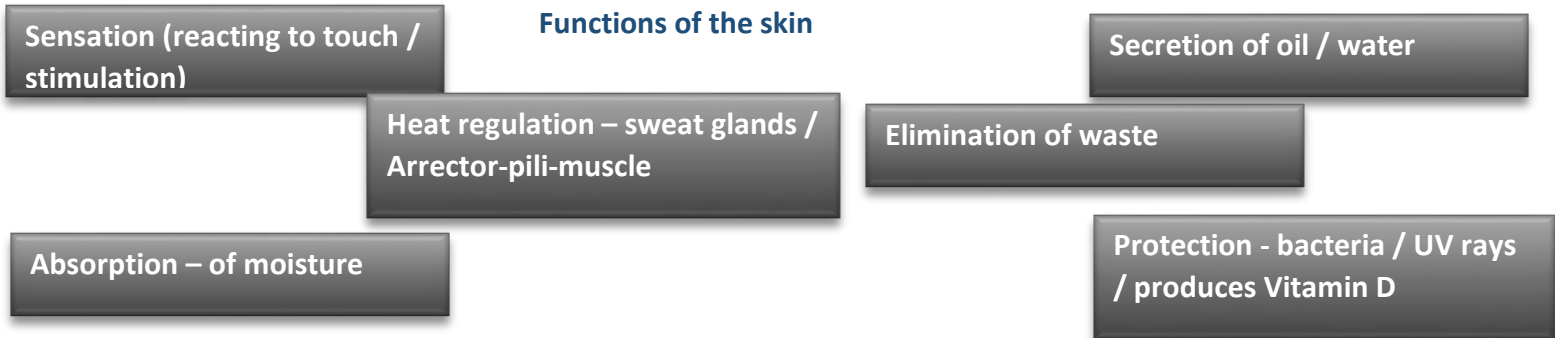
Understand biology related to the hair and beauty sector



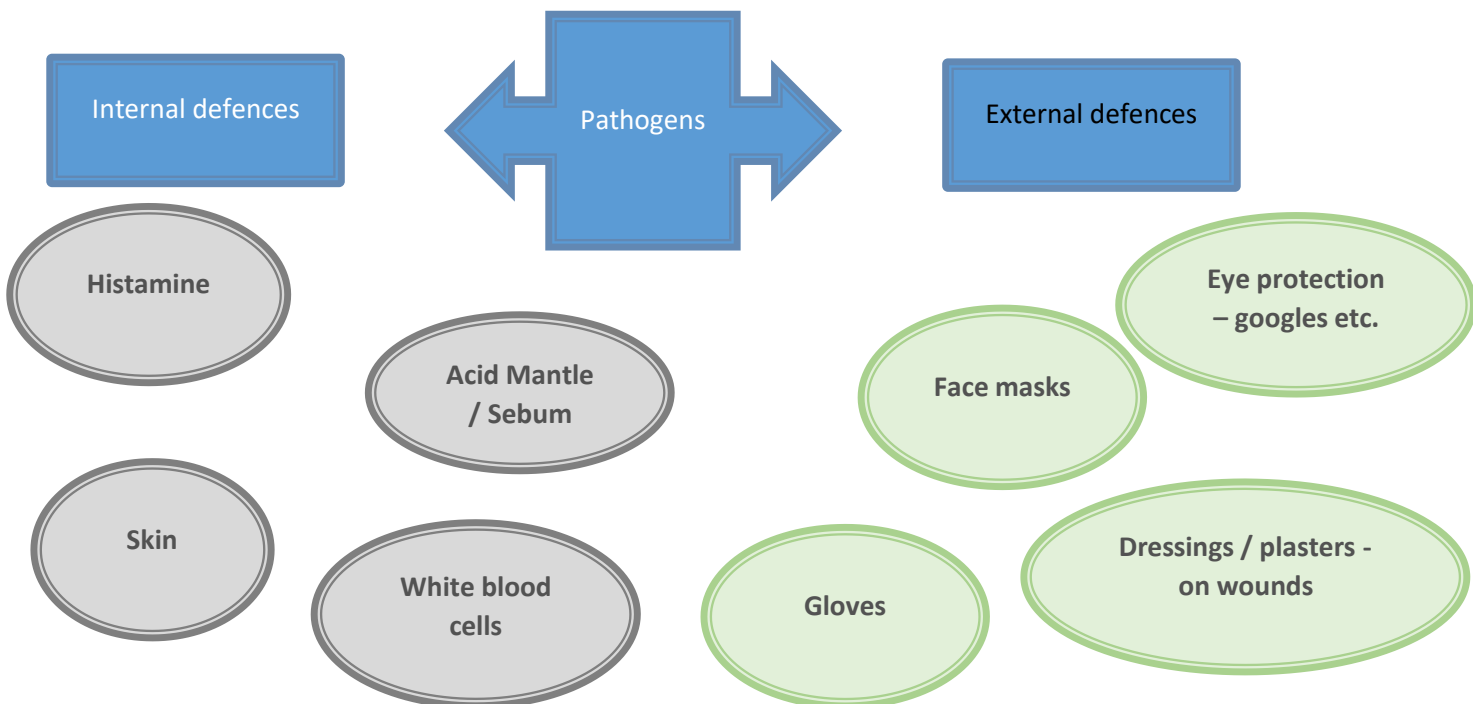
The Layers of Skin



SHAPES

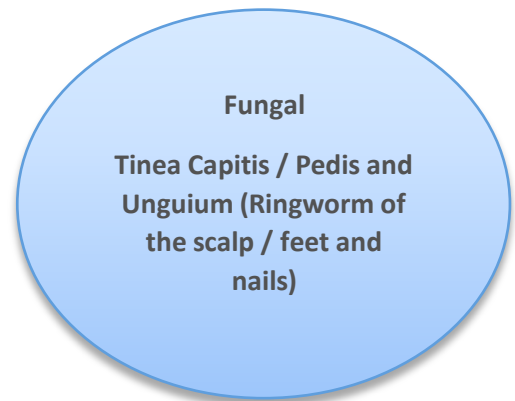
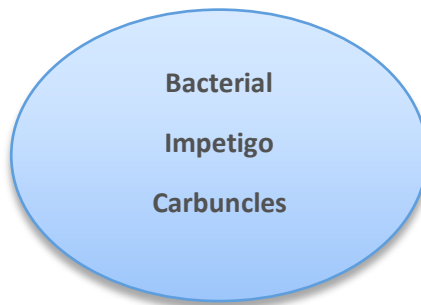
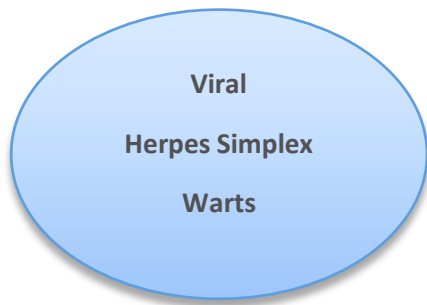


Disease causing organisms

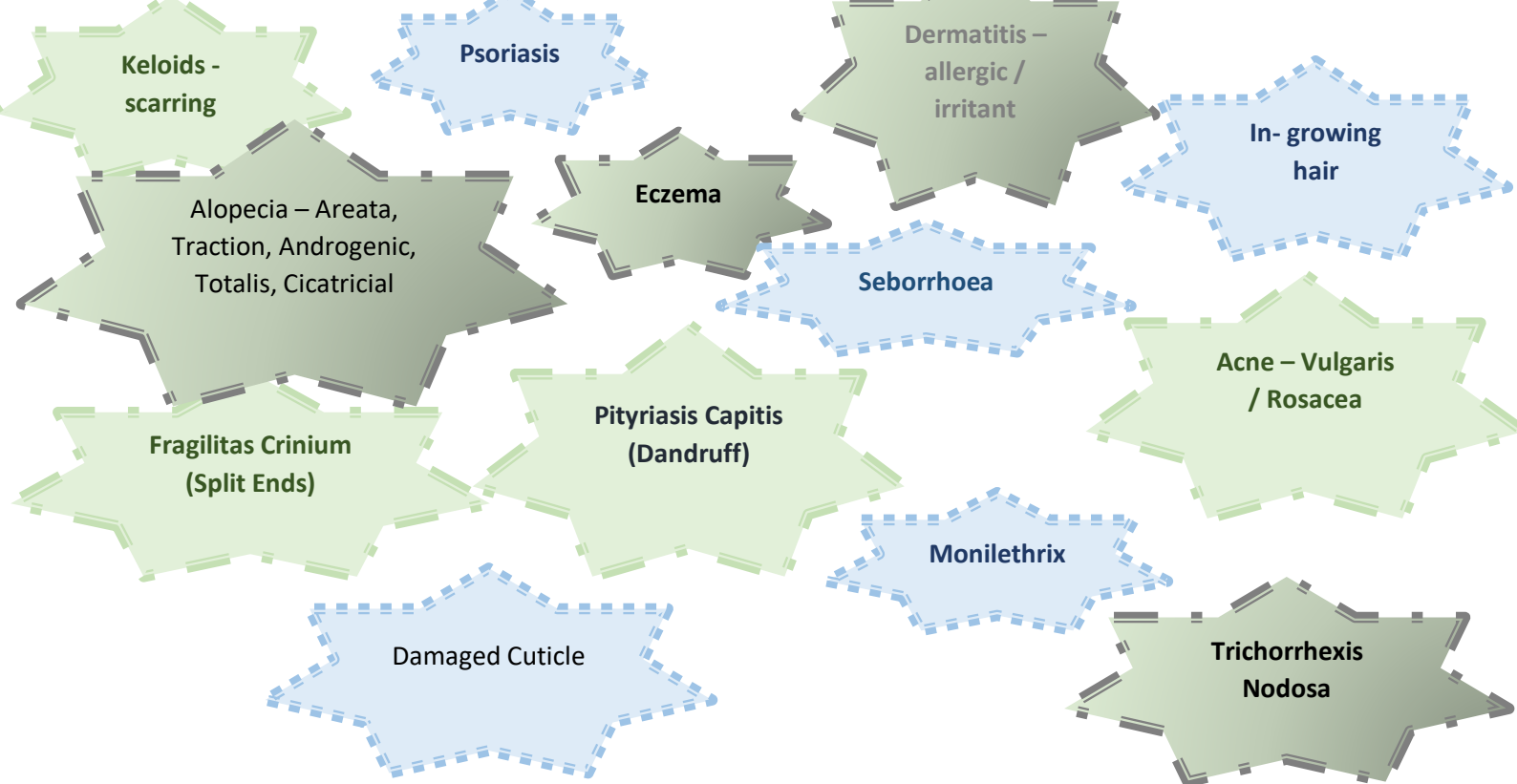


Infections

Contagious



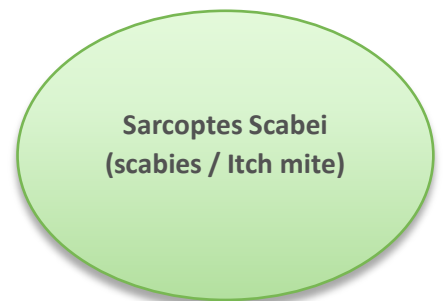
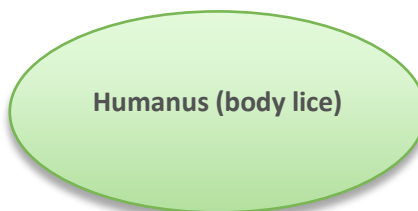
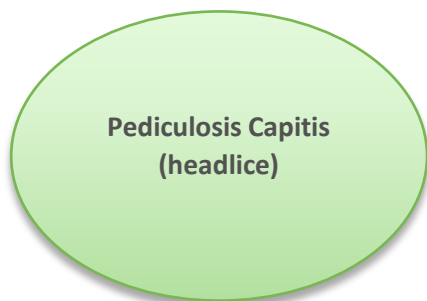
Non-contagious disorders



Infestations

Live parasites

little animals



Hair testing

Elasticity – check the strength of the cortex

Pull – determine excessive hair loss

Porosity – to check the rate of absorption

Density – to ascertain density