|  |  |
| --- | --- |
| Natural fibres | Manufactured fibres |
| Natural fibres are ----------------------------------------------------------------------------------------------------- | Image result for cartoon coalImage result for cartoon oilImage result for cartoon chemicalsManufactured are man-made fibres that are either completely made --------------------- (not living) materials or ----------- materials ----------- with ----------------- Image result for cartoon leaf |
| Aramid fibres Are a class of ————————————————————- They are used in ——————————— applications (—————————- are examples)Properties--------------- ----------------- | Image result for what is  a aramid fibre |
| **Strength** |  | A *material* that soaks up liquid or moisture. |
| **Elasticity** | It is **hydrophobic** (a material that is completely resistant to water.  |
| **Absorbency** | Strength of Materials: the behaviour of materials when forces are applied to them (pulled, tension, stress). |
| **Durability** | How long lasting and hard wearing a material is.  |
| **Insulation** | A material that does not build-up of static electricity. |
| **Flammability** | The prevention or reduction of losing heat.  |
| **Water – repellence** | How much a material can stretch and then return to its original position.  |
| **Anti-static** | How well a *material can* stop or prevent reacting to something E.g.. Bleach, sunlight, chemical…..  |
| **Resistance to…** | *Materials* ability to ignite and burns rapidly with a flame |

|  |  |
| --- | --- |
| Natural fibre properties* These fibres come from ---------------------
* They are also -------------- (Something that will decay (break down) over time)
* Generally ---------------
* ------------ resistance to ----------------
* ---------------- – especially ---------- fibres
 | Manufactured fibre properties* ---------------- than natural fibres.
* --------- less than ----------- fibres
* ----------------- for than natural fibres (i.e. wash/clean)
* Resistant to -------------------
* Durable
 |
| MicrofibersMicrofibres have a -----------------. This creates less --------- and -------------- and leads to --------------Fibre examples are – T------------ and T-----------------  | These are ------------------------- They are less than ------------------ http://maximmart.com/images/what-is-microfiber.jpgHow much finer than one human hair? What product are commonly made from them?  |
| Fibre blends means …..The combining of 2 or more --------------------------------------------------------------------------------------------- | Fibre mix means …..This is when a fabric is made from ----- or more --------- types of ------------- |
| Why are they blended/mixed? (i.e. what are the benefits) 1---------------------- 2 ------------------------ 3 ------------------------------ 4---------------------------- |
|  | Product ----------------- Why?--------------------------------------------- |
|  | Product ----------------- Why?--------------------------------------------- |
|  | Product ----------------- Why?--------------------------------------------- |