|  |  |  |  |
| --- | --- | --- | --- |
| 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 |
| Microfibers  Microfibres 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.jpg  How 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?--------------------------------------------- | |