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| Application | Chosen material | 3 reasons for choice of material | Marks 20 |
| Wind turbine blades | FRP  FRE | Rigid  Lightweight  Easily moulded  Torsion resistant  Resistant to fatigue  Good weather/temperature resistance. | 4 |
| Pillar drill chuck guard | Acrylic  Polycarbonate | Hard  Can be injection moulded  Transparent  Impact resistant | 4 |
| Cylinder head | Cast iron  Aluminium | Able to be cast  Inexpensive (iron)  Lightweight (aluminium)  Corrosion resistant  High melting point  Rigid | 4 |
| Anti – vibration mounts | Specific Rubber eg: silicone | High energy storage  Sound absorption  Flexible  Elasticity  Can be cast into shape | 4 |
| Centre punch | Medium carbon steel  Carbon tool steel | Hard  Toughness  Impact resistant | 4 |