

YEAR 11 – AUTUMN COMBINED

CHEMISTRY KNOWLEDGE ORGANISER

C4.1 How is data used to choose a material for a particular use?

C4.1.1 compare quantitatively the physical properties of glass and clay ceramics, polymers, composites and metals, including melting point, softening temperature (for polymers), electrical conductivity, strength (in tension or compression), stiffness, flexibility, brittleness, hardness, density, ease of reshaping

C4.1.2 explain how the properties of materials are related to their uses and select appropriate materials given details of the usage required

C4.1.3 describe the composition of some important alloys in relation to their properties and uses, including steel
(*separate science only*)

More at - <https://ocr.org.uk/qualifications/gcse-twenty-first-century-science-suite-chemistry-b-j258-from-2016/delivery-guide/topic-gcvt04-c4-material-choices/delivery-guide-gcdgb014-c41-how-is-data-used-to-choose-a-material-for-a-particular-use>