

Take a Look at Materials



Look at each object in the pictures. Think about which material it is made of.

Think about the properties of each material and why this material was chosen to make each object.

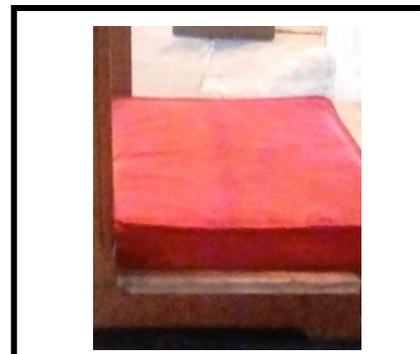
*E.G. Wood was used for the Pulpit as it is durable and hard so it does not wear away and is strong enough for people to stand in when they speak out loud to everyone in the church. **Can you find different pictures of pulpits on the internet?** They are not all made of wood!*



High Altar rail

Materials:

Properties:



**Cushion on a seat in the
Choir**

Materials:

Properties:



Mary with baby Jesus window

Materials:

Properties:



Cross on an Altar

Material:

Properties:

Properties of Materials

Durable: able to cope with repeated use and wear

Hard: difficult to scratch or mark

Soft: easy to scratch or make a mark

Strong: able to withstand pushing and pulling forces and weigh

Weak: not very good at withstanding forces applied, breaks easily

Rigid: not at all bendy, stiff

Flexible: can bend without breaking

Thermal conductor: allows heat to pass through it easily, so can get warm itself

Thermal insulator: does not let heat pass through it easily, so can keep things warm

Opaque: light cannot pass through it

Translucent: some light passes through

Transparent: light can pass straight through this material and no shadow is made

Waterproof: will not let water in

Do any of the objects above have many of these properties?



Find some pictures of the inside and outside of Norwich Cathedral from the internet.

Identify materials you can see and think about why they have been used for the construction of this building?



Design & draw a new Cathedral.

What materials would you choose to use and why? **Tweet us your work to: @cathedraledu**



Make a Cathedral using materials you can recycle at home. Which materials make your structure the strongest and most beautiful? ***The Normans wanted to make the Cathedral big, tall, a symbol of God's greatness and beautiful to remind everyone of the glory of God.***
How will you make yours look like that?



LOOK! around your own home. Spot as many materials as you can and list them with their properties.

If you had to design new cutlery, cooking utensils and furniture what would they be like? Which materials would you use? Draw some.



Design a home for the future! Don't forget to think about being eco-friendly!



Teacher/parent answers

Altar rail – metal - iron/enamel jewel/gold leaf paint Seat: oak wood, velvet, foam

Window: lead, glass, paint, stone surround, Cross: metal (may be brass or silver), ivory stone in centre.

Images they may find from the internet: (you can prompt them to search for these listed below):

Cathedral is made of limestone from Northern France 1096 onwards. **Lead** on roof and **wooden** beams, stone used too for ceiling vaulting.

Iron, metal cockerel shaped weather vane on top of stone spire. Went up there in 1912.

Lead in windows, glass, wooden doors, wooden chairs, plastic chairs in places, copper font, wood carved seats in Choir.

Silver chalices and plates in treasury.

700 years old pelican shaped lectern (bookstand in choir) is made of a metal called latten. Cotton, silk, velvet, wool used for robes (vestments) and covers/frontals on altars, also for banners & flags.

Natural materials: Grass, earth outside, trees, memorials and sculptures.