

Resource — Raw and Processed Material Cards

Printable matching-card resource for Lesson 6. Paired cards of raw materials and the processed materials they become (wool/yarn, sand/glass, oil/plastic, ore/metal, tree/paper, wheat/bread), for a matching or memory game, with a teacher answer key and processing notes. Supports the From Raw to Useful worksheet and links to Design and Technologies and Sustainability.

Print one set per group on card and cut out all the cards. Use them for a **matching game** (lay all cards face up and pair each raw material with its processed material) or a **memory game** (turn cards face down and find matching pairs).

Card pairs to print and cut

Raw material card	Processed material card
Wool (from a sheep)	Yarn / woolly jumper
Sand	Glass
Oil (from underground)	Plastic
Ore (metal rock)	Metal spoon
Tree / timber	Paper
Wheat	Bread
Clay	Brick
Cotton plant	Cotton T-shirt

Teacher answer key and processing notes

Pair	How it is processed (simple)
Wool → yarn	Sheep are shorn, the wool is cleaned, then spun into yarn and knitted or woven.
Sand → glass	Sand is heated until it melts, then cooled into clear, hard glass.
Oil → plastic	Oil is separated and its parts are joined into long chains to make plastic, then shaped.
Ore → metal	Ore (rock with metal in it) is crushed and heated to get the metal out, then shaped.
Tree → paper	Wood is broken into a soft pulp, pressed flat and dried into paper.
Wheat → bread	Wheat is ground into flour, mixed into dough and baked.
Clay → brick	Wet clay is shaped into blocks and baked hard in a kiln.
Cotton → T-shirt	Cotton is picked, cleaned, spun into thread and woven into fabric.

Design and Technologies link. Producing food and fibre — such as turning wool or cotton into fabric — connects directly to the Year 4 Design and Technologies context of food and fibre production.

Sustainability link. Ask: which of these processed materials can be **recycled** (glass, metal, paper, some plastics)? Recycling means we do not have to take as many raw materials from the environment.