

Solid materials






Name: _____

Every day we use different materials that are found around us. For instance, you are sitting on a chair made of wood or plastic. Wood comes from trees which is a natural resource and plastic is a man made product. Materials from natural resources are called 'raw materials', and materials that have been processed, like wood made for furniture, is called 'manufactured materials'.

Examples of raw materials used to make manufactured materials are:


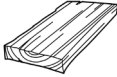

- Animal skin (raw material) processed into leather (manufactured material) to make shoes, hand bags, purses, wallets and belts (manufactured materials).
- Animal wool (raw material) is used to make clothes, such as jerseys and scarves (manufactured materials).
- Sand (raw material) is heated to extremely high temperatures and melted to make glass (manufactured materials).
- Clay (raw material) is moulded and burned to make ceramics (manufactured materials).
- Coal and oil (raw materials) are used to make plastics, paints and fabrics (manufactured materials).
- Wood and plant fibres (raw materials) are used to make paper (manufactured material).

Decide if the following materials are raw materials or manufactured materials:

	Raw material	Manufactured material
Apple 		
Glass 		
Feathers 		
Leather 		
Diamond 		

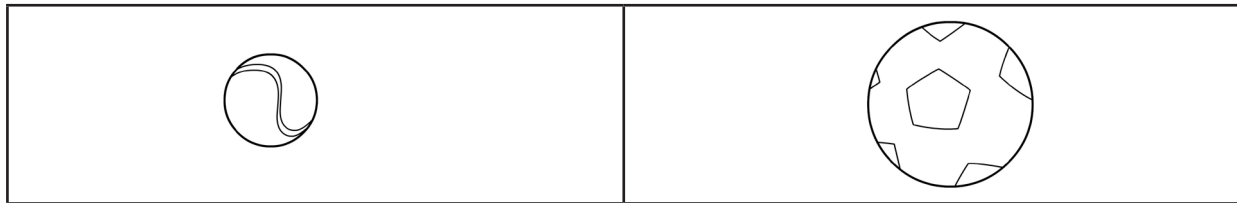
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	Raw material	Manufactured material
Pot made of clay 		
Wood 		
Plastic bag 		

Properties of materials:

- Hard or soft
- Tough or fragile
- Stiff or flexible
- Strength in tension



What sport do you use these balls for? (1) _____ (2) _____

Each ball is made from a different material, what are these materials?

Describe the properties of the material used for each ball.

Why do you think these materials are used for these balls? _____
