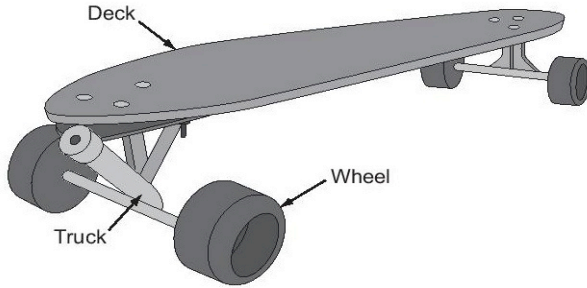


Materials Question

1 A line drawing of a skateboard is shown below.

Figure 1



1 (a) (i) In the spaces below, identify a suitable construction material for each of the labelled parts.

Deck

.....

Wheel

.....

Truck

.....

(3 marks)

1 (a) (ii) In the spaces below, describe the properties of the chosen materials which make them suitable for their tasks.

Properties of deck material

.....

.....

.....

.....

(2 marks)

Properties of wheel material

.....

.....

.....

.....

(2 marks)

Properties of truck material

.....

.....

.....

.....

(2 marks)

Answers

Question 1

Question	Part	Sub Part	Marking Guidance	Mark	Comments
1	a	i	<p>Select from answers such as:</p> <p>Deck</p> <ul style="list-style-type: none"> • Plywood • Laminated timber • Maple • Fibre Glass (GRP) • Or any other suitable materials <p>Wheel</p> <ul style="list-style-type: none"> • Polyurethane • Steel skate wheel [early boards] • Nylon • Or any other suitable materials <p>Truck</p> <ul style="list-style-type: none"> • Aluminium • Aluminium alloy • Steel axles • Or any other suitable materials 	3	<p>Do NOT accept Veneer except when a specifically named material (e.g. Maple Veneer)</p> <p>Do NOT accept generic materials (wood/Plastic/metal)</p>
1	a	ii	<p>Select from descriptions such as:</p> <p>Property of deck material should be:</p> <ul style="list-style-type: none"> • flexible • tough • non slip • springy 	6	<p>Many of these properties are shared. Therefore description statements should be judged on their individual merits and some repetition not</p>

			<ul style="list-style-type: none"> • light weight 	(1 mark for each – Max 2 marks)	automatically penalised.
			<p>Property of wheel material should be:</p> <ul style="list-style-type: none"> • hard wearing • impact absorbing • surface gripping • mouldable resilient • abrasion resistant 	(1 mark for each – Max 2 marks)	<p>Award 1 mark per stated property up to 2 marks. Or, where 1 property is stated and then justified apply 1 mark for property and 1 for justification.</p>
			<p>Property of truck material should be:</p> <ul style="list-style-type: none"> • strong (if placed in context) • lightweight • corrosion resistant • rigid • suitable for casting 	(1 mark for each – Max 2 marks)	