

Now Test Yourself

1. Define what is meant by the term mechanical property.

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..... (2)

2. Define what is meant by the term physical property.

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..... (2)

3. Name and define three types of mechanical strength properties.

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..... (3)

4. Give three material properties and state why each is required for a single-use drinks bottle made from a polymer.

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..... (3)

5. Explain why a workshop drill bit needs to be made from a hard material.

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..... (2)

6. What classification of material is larch?

..... (1)

7. List the three classifications for metals.

..... (3)

8. Silicone is an example of what classification of material?

..... (1)

9. State the meaning of the term 'compliant material' and name the material classification.

..... (1)

10. Define what is meant by the term 'smart material', and name two different smart materials.

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..... (2)

11. Describe the difference between simple workshop tests and industrial tests.

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..... (2)

12. Name the three industrial tests that can be used to determine the hardness of a material.

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..... (3)

13 Use notes and sketches to describe how a workshop test can determine the hardness of a range of material samples.

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..... (3)

14. In the Izod impact test, how is the height the pendulum swings after striking the test piece used to determine the toughness of the material?

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..... (3)

15. Name two examples of non-destructive testing (NDT).

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..... (2)

33 marks in total

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