Materials Around Us

Standard difficulty · 20 questions · 40 marks · Time: 36 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. Anything that has mass and takes up space is called:
(a) heat **(b)** light **(c)** energy **(d)** matter

2. Which of these is TRANSLUCENT?
(a) frosted glass **(b)** an iron sheet **(c)** a brick **(d)** wood

3. Which of these is OPAQUE?
(a) butter paper **(b)** tracing paper **(c)** glass **(d)** cardboard

4. Which of these is soluble in water?
(a) vinegar **(b)** cooking oil **(c)** sawdust **(d)** sand

5. Which of these floats on water?
(a) a stone **(b)** a coin **(c)** a dry leaf **(d)** a glass marble

6. Which of these is lustrous (shiny)?
(a) cotton cloth **(b)** clay **(c)** copper **(d)** paper

7. In a float-or-sink test, 16 of 21 objects floated. How many sank?
(a) 37 objects **(b)** 16 objects **(c)** 5 objects **(d)** 6 objects

8. Each spoon of salt weighs 25 g. 3 spoons are dissolved in water. How much salt is in the water?
(a) 75 g **(b)** 28 g **(c)** 100 g **(d)** 50 g

Section B — Short answer — 8 × 2 = 16 marks

9. What is matter?

10. Is each "transparent", "translucent" or "opaque"? (a) oiled paper (b) wood

11. Write "soluble" or "insoluble" in water: (a) honey (b) sand

12. Does it "float" or "sink" in water? (a) a glass marble (b) an ice cube

13. Write "lustrous" or "non-lustrous": (a) clay (b) gold

14. Name a good material for each and the property that makes it suitable: (a) a summer shirt (b) a cooking pot

15. A shopkeeper puts 6 bottles of 100 mL each into a box. How many millilitres is that? How many litres? (1 L = 1000 mL)

16. A pan has a body of 3 hundred grams of steel and a handle of 6 hundred grams of plastic. What is its total mass in grams?

Section C — Word problems — 4 × 4 = 16 marks

17. Classify these materials as transparent, translucent or opaque: glass, butter paper, wood, clean water, frosted glass, steel.

18. Sort these into transparent, translucent and opaque: cardboard, oiled paper, tracing paper, a clear plastic sheet, a brick, clean water. Which group would you use for a bathroom window, and why?

19. Plan an experiment to test which of these dissolve in water: sugar, vinegar, cooking oil, wheat flour. What result do you expect for each?

20. You test a dry leaf, a key, a glass marble, a thermocol piece, an iron nail, a plastic bottle cap in a bucket of water. (a) Which float and which sink? (b) How many float? (c) Name one material that floats though it is heavy.

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Answer key

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Q	Answer	Working
1	(d) matter	—
2	(a) frosted glass	—
3	(d) cardboard	—
4	(a) vinegar	—
5	(c) a dry leaf	—
6	(c) copper	—
7	(c) 5 objects	21 − 16 = 5
8	(a) 75 g	25 × 3 = 75
9	Anything that has mass and takes up space.	—
10	(a) translucent (b) opaque	—
11	(a) soluble (b) insoluble	—
12	(a) sinks (b) floats	—
13	(a) non-lustrous (b) lustrous	—
14	(a) cotton: soft and absorbs sweat (b) metal: hard, lets heat through	—
15	600 mL; 0.6 L	6 × 100 = 600
16	900 g	300 + 600
17	Transparent: glass, clean water. Translucent: butter paper, frosted glass. Opaque: wood, steel.	—
18	Transparent: a clear plastic sheet, clean water. Translucent: oiled paper, tracing paper. Opaque: cardboard, a brick. Translucent: it lets light in but people cannot see in clearly.	—
19	Take the same amount of water in four glasses, add one spoon of each, stir and wait. Soluble: sugar, vinegar. Insoluble: cooking oil, wheat flour.	—
20	(a) Float: a dry leaf, a thermocol piece, a plastic bottle cap; sink: a key, a glass marble, an iron nail (b) 3 (c) A large wooden log (or a ship made of steel).	—

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