Texture, brightness, weight and density

VOCABULARY PRACTICE

INTERMEDIATE | B1-B2

Name: _____ **Date:** _____

1 Match each material property with its meaning.

1 coarse	____	a unable to bend easily
2 polished	____	b amount of mass in a given volume
3 flexible	____	c producing or reflecting strong light
4 rigid	____	d rough in texture
5 luminous	____	e force caused by gravity acting on an object
6 opaque	____	f able to bend without breaking
7 weight	____	g smooth and shiny from rubbing or treatment
8 density	____	h not allowing light to pass through

2 Complete the property collocations.

density | finish | high | low | rough | smooth | surface | weight

1 a polished _____

2 a _____ texture

3 a _____ surface

4 _____ density

5 _____ density

6 support the _____

7 reduce the _____

8 a matt _____

3 Correct one mistake in each sentence.

1 The fabric has a smoothly texture. _____

2 This metal is highly density. _____

3 The light is too brightness for this room. _____

4 Mass and weight mean exactly the same. _____

5 An opaque sheet lets all light through. _____

6 The rubber is rigid and bends easily. _____

7 The surface feels coarsely. _____

8 Density is mass divided with volume. _____

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4 Complete the materials report with words from the box.

coarse | density | flexible | luminous | opaque | polished | rigid | weight

The designer compared two panels. The first had a **1** _____ surface that reflected light and looked almost **2** _____. It was fairly **3** _____, so it could bend slightly. The second panel was **4** _____ and completely **5** _____. Its **6** _____ texture made it suitable for a non-slip floor. Although both panels had the same size, their **7** _____ and **8** _____ were different.

5 Read the text and answer the questions briefly.

Mass, weight and density

Mass is the amount of matter in an object and is measured in kilograms. Weight is the force of gravity acting on that mass, so an object's weight can change if gravity changes. Density is mass divided by volume. Two objects can have the same mass but different densities if they occupy different volumes.

1 What does mass measure? _____

2 How is mass measured? _____

3 What causes weight? _____

4 Can weight change when gravity changes? _____

5 How is density calculated? _____

6 Why can equal masses have different densities? _____

6 Rewrite using the word in capitals.

1 The surface was made smooth and shiny. **POLISHED** ____

2 The material did not let light through. **OPAQUE** _____

3 The sheet could bend without breaking. **FLEXIBLE** _____

4 A large mass was packed into a small volume. **DENSITY** _

OVER TO YOU

Write a **100-120 word** comparison of two materials for a product. Discuss texture, brightness, weight and density.

[ ] Use at least ten target expressions. [ ] Distinguish mass, weight and density. [ ] Recommend one material.

Texture, brightness, weight and density

ANSWER KEY

1 Material properties

1 **d** 2 **g** 3 **f** 4 **a** 5 **c** 6 **h** 7 **e** 8 **b**

2 Property collocations

1 **surface** 2 **rough** 3 **smooth** 4 **high** 5 **low** 6 **weight** 7 **density** 8 **finish**

3 Corrections

1 a **smooth** texture 2 **high** density 3 too **bright** 4 Mass and weight are **different**.
5 lets **no** light through 6 is **flexible** 7 feels **coarse** 8 divided **by** volume

4 Materials report

1 **polished** 2 **luminous** 3 **flexible** 4 **rigid** 5 **opaque** 6 **coarse** 7 **weight** 8 **density**

5 Reading - suggested answers

1 The amount of matter. 2 In kilograms. 3 Gravity acting on mass. 4 Yes.
5 Mass divided by volume. 6 They occupy different volumes.

6 Rewriting - possible answers

1 The surface was **polished**. 2 The material was **opaque**. 3 The sheet was **flexible**. 4 It had a high **density**.

Over to you: Answers will vary. Check property vocabulary, scientific distinctions and justification.