

Answer key

Unit 1

1a (pages 4 and 5)

1
purple

2
1 F 2 F 3 T 4 T 5 F

3
1 spend 2 seems ... like 3 belong 4 possess
5 feel 6 need 7 are disappearing 8 move 9 is getting
10 are speculating

4
1 natural 2 common 3 minority 4 the cold 5 smaller

5
1 use 2 contain 3 come 4 are now reporting
5 is increasing 6 know 7 cause 8 don't understand
9 is becoming

6
1 Do (you) like ... Does (it) look. 2 'm/ am looking
3 does (this bag) belong. 4 does (it) taste
5 Are (you) thinking. 6 suppose

7
1 He goes out with friends at weekends. or At weekends, he goes out with friends.
2 He's / He is spending time with his family today. or Today he's / he is spending time with his family.
3 He's / He is making lunch at the moment. or At the moment, he's / he is making lunch.
4 He usually makes lunch.
5 He does housework every day. or Every day he does housework.
6 He never does DIY.

1b (pages 6 and 7)

1
1 No.
2 Two or more of their senses get mixed up.
3 Yes, it's a bit too much sometimes.
4 Mark's synaesthesia means that he tastes words.
Kandinsky's synaesthesia mixed colour, hearing, touch and smell.
5 Seeing words in colour.
6 Our brains.

2
1 taste 2 hear 3 hearing 4 touch 5 smell

3
1 Where does Mark come from?
Canada.
2 Who else in his family has the same condition?
His sister.
3 What's / What is the name of his condition?
Synaesthesia.
4 Which sense gives Mark problems?
Taste.
5 What is Savitri Wonder famous for?
He's a musician.
6 What colour does Mark's sister associate with Tuesday?
Brown.

5b

Possible answers:

1 How many brothers have you got?
2 Do you like your job?

3 Why do you always go to France?
4 Where are you from?
5 Can you speak any other languages?
6 What are your favourite stories?

6

1 luck 2 knowledge 3 power 4 mourning 5 passion

7

1 happiness 2 courage 3 love 4 wisdom 5 sadness

1c (page 8)

1

5

2

1 green 2 men 3 three 4 lead

3

1 ten per cent

2 She can't tell if the DVD player is on or off – because the buttons are red and green.

3 blue

4 red, green, blue

5 police officers, airline pilots

4

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

5

1 A: Louisa is seeing someone new.

2 B: I see. Well, thanks anyway.

3 B: You need to see a doctor.

4 A: Do you see how easy it is?

1d (page 9)

1

1 C: It's a pleasure to meet you.

2 C: Why don't I give you my card?

3 C: May I introduce myself?

4 C: Let's stay in touch.

5 C: It's been good talking to you.

6 C: I'm very pleased to meet you.

2

1 May I introduce myself?

2 It's a pleasure to meet you or I'm very pleased to meet you.

3 It's been good talking to you, or let's stay in touch.

4 Why don't I give you my card?

3

1 for 2 on 3 at 4 in 5 for 6 at

4a

1 e 2 d 3 b 4 c 5 f 6 a

4b

1 2 4 6

5

1 Are you? 2 Is it? 3 Yes, I have. 4 Yes, I do.

5 No, I can't. 6 Are they?

1e (page 10)

1a

1 letter 2 informal 3 knows 4 to give information

1b

1 About our work: b c

2 Satisfied customers: a

3 About us: d

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JA Banks



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web to separate the lanthanides from other elements occurring with them they are chemically combined with specific substances to form lanthanide compounds with low solubility oxalates and fluorides for example a process known as ion exchange is then used to separate the lanthanides from each other in this process a solution of the

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web dec 12 2019 here s a list of the 15 elements that are lanthanides which run from atomic number 57 lanthanum or Ln and 71 lutetium or Lu lanthanum symbol Ln atomic number 57 cerium symbol Ce atomic number 58 praseodymium symbol Pr atomic number 59 neodymium symbol Nd atomic number 60 promethium symbol Pm

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web jan 1 1997 the lanthanides comprise the largest naturally occurring group in the periodic table there are more than 100 minerals known to contain lanthanides but the only two of commercial importance are monazite and bastnaesite the chapter discusses the production of lanthanide elements by electrolysis of fused salts and by metallothermic reduction

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web the fifteen elements shown in table pageindex 1 from lanthanum la 4f 0 to lutetium lu 4f 14 are lanthanoids Ln may be used as a general symbol for the lanthanoid elements although lanthanoids scandium sc and yttrium y are sometimes called rare earth elements they are relatively abundant in the earth s crust

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web jan 1 2000 powell describes displacement chromatography and elution chromatography as the two principal methods for separating lanthanide cations by ion exchange chromatography in displacement chromatography the ions to be separated are first sorbed onto a column of the resin the analyte metals are eluted from the column

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web feb 4 2021 the lanthanides are located on the top row of the two rows of elements found below the main body of the periodic table placing the lanthanides and the actinides the row below the lanthanides below the other elements is just a matter of aesthetics the lanthanides belong to period 6 like cesium barium and hafnium