

## 6

## Materials

## 1 Materials testing

- Start here** 1 Work in pairs. Read the instructions and answer the question.
- Look at the helmet and rope. What are they made of?
  - Design tests for them. Use diagrams and the words in the box.

break nylon polycarbonate pull stretch strike

- Listening** 2  32 Listen and answer the questions.

1 What material is the rope made of?

\_\_\_\_\_

2 What is the lecturer doing?

\_\_\_\_\_

3 Is the rope breaking?

\_\_\_\_\_

- 3 Listen again and complete the dialogue.

- I'm (1) \_\_\_\_\_ the rope. I'm (2) \_\_\_\_\_ it.  
Is it (3) \_\_\_\_\_?
- No, it (4) \_\_\_\_\_.
- That's right. It (5) \_\_\_\_\_.



**Language** This is the *present continuous* form of the verb. Use it to describe what is happening at the same time as you are speaking.

I	'm am	pull	-ing	the rope.
The rope	isn't is not	break	-ing.	
What	are	you	do	-ing?
	is	the rope	break	

- Vocabulary** 4 Match the actions with the verbs in the box.

bend compress cut drop heat scratch stretch strike



**Language** 5 The lecturer is testing other materials. Complete his description.

- Now I (1) *'m heating* (heat) this plastic to 100°C. Can you see?  
It (2) \_\_\_\_\_ (not melt).  
OK, now I (3) \_\_\_\_\_ (put) this helmet on the floor. And  
now the machine (4) \_\_\_\_\_ (drop) a 10 kg weight on it.  
Right, now look at Dr Wilson. He (5) \_\_\_\_\_ (strike) the  
metal plate with a hammer. But the plate (6) \_\_\_\_\_  
(not bend).  
OK, now the jaws of the vice (7) \_\_\_\_\_ (compress)  
this plastic block. The block (8) \_\_\_\_\_ (not break).  
Now Dr Wilson (9) \_\_\_\_\_ (hang) a weight of 500 kg  
from the ropes. But the ropes (10) \_\_\_\_\_ (not stretch).

Note the spelling changes:  
strike → striking  
drop → dropping  
cut → cutting

**Speaking** 6 What are the people in the gym doing? Describe this picture using the words in the box.

bend cycle hold lift pick up pull push run sit stretch touch



7 Ask and answer questions about the picture in 6.

- A: What's D doing? Is he pushing the bar up?  
B: No, he isn't. He's pulling the bar down.

8 Work in pairs. Guess the sport from the mime.

Student A: do the actions.  
Student B: guess what Student A is doing. Then change roles.

- A: Watch me. (Mime a sport). What am I doing now?  
B: Are you diving?  
A: No, I'm not diving.  
B: I know. You're swimming.  
A: Yes, you're right. I'm swimming.