5	A student investigates terminal velocity.	
	She uses a tall glass tube filled with oil.	
	She drops a metal ball into the tube.	GO/
	The ball falls through the oil.	
	j	oil glass tube
		glass tube
	(a) Use ideas about forces to explain how a falling	
		(5)



(b)	Describe how the student could find out if the ball reaches terminal velocity a	s it
	falls through the oil.	

In your answer, you should include

- the measuring instruments that the student will need
- the measurements that she should take
- how she could use her measurements to find out if the ball reached terminal velocity.

You may include a labelled diagram in your answer.

(5)

(Total for Question 5 = 10 marks)
•

