

Question number	Answer	Notes	Marks
12 (a)	Terminal (velocity / speed);	allow bald 'terminal'	1
(b)	Any four of -  MP1. weight acts downwards;  MP2. drag/friction acts upwards;  MP3. Idea that forces are balanced;  MP4. reference to $f_{(R)} = ma$ ; MP5. Idea that when forces are balanced then acceleration is zero; MP6. constant velocity = no acceleration;	ignore <ul style="list-style-type: none"> <li>• motion before terminal velocity</li> <li>• gravity</li> </ul> allow <ul style="list-style-type: none"> <li>• force of gravity</li> <li>• air resistance</li> <li>• acts to oppose motion</li> <li>• drag = weight</li> <li>• force up = force down</li> <li>• no resultant force</li> </ul> Allow answers in terms of N I  forces may be shown on diagram	4

Total 5 marks