Question number	Answer	Notes	Marks
8 (a) (i)	balance;	condone scales reject scale	1
(ii)	take repeats <b>and</b> either find mean, identify or remove anomalies;		1
(b)	mass of air is 0.61 g; correct use of formula: density = mass/volume; correct evaluation to 2 sf; appropriate unit i.e. g/cm <sup>3</sup> ;	-1 POT error	4
	correct answer = 0.0012 g/cm <sup>3</sup>	accept use of standard form i.e. $1.2(4) \times 10^{-3}$ g/cm <sup>3</sup>	
	e.g. mass of air = 15.61 - 15.00 = 0.61 density = mass ÷ volume density = 0.61 ÷ 490 density = 0.00124 g/cm <sup>3</sup> density = 0.0012 g/cm <sup>3</sup> to 2 sf		
(c)	any THREE from: MP1. any reference to displacement method; MP2. measure original volume of water; MP3. (fully) submerge balloon; MP4. re-measure volume of water; MP5. subtract one volume from the other;		3
		allow reference to displacement to a different vessel and use of measuring cylinder or beaker for three marks	

Total for Question 8 = 9 marks