SCIENCE 2021/2022 HOMEWORK #19

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Ata	om	Neutrons	Nucleus	Protons	Electrons						
	e.	• The smallest building block of matter is									
	d. are	is the center-most part of an atom where the protons and neutrons re found.									
	c.	The nucleus of an atom contains particles with no charge called									
	b.	An atom consists of positively charged nuclei and negatively charged									
	a.	The nucleus of an ato	m contains positively	charged							
2.	Ma	atch the words from t	he w <i>ord bank</i> to con	nplete the sentence	es:						
1.	WI Hi	The size of an atom is about ~10 ⁻¹⁰ m. The size of an atomic nucleus is ~10 ⁻¹⁴ m. What part (by volume) of an atom does its nucleus take? Hint: recall the formulae for the volume of a sphere (see Slide #10 of Lecture #7 for nelp), calculate volumes of nucleus and atom separately, then take a ratio.									