Integrated Science – Final Exam Study Guide

	Review all reference tables, handouts, & charts. Begin to study now.
2.	Review 5 characteristics necessary to be a mineral:,,
3.	To test for mineral hardness:; To test for mineral streak:
1 160	mineral streak:
	What is streak:
4	How do you test for a mineral's hardness:
-	What is streak: How do you test for a mineral's hardness: . Know Mohs' Hardness Scale. (1-10)
5.	What is a mineral ore?
	Difference between a renewable & non-renewable resource:
	Émile d'ystels in l'alequiencies
7.	What is a natural resource:
8.	What is the silicate group of minerals:
	Know the metal & non-metal mineral resources:
	Alberte Porte de la
10.	Which conducts electricity?
	What is a fossil:
	Be able to use the density formula $(d = m/v)$
	Review matter (
	& mass (the amount of matter taking up space)
14.	Definition of an atom:
15.	Know the atomic # () & the atomic mass ()
16.	An isotope is;
17.	An ion is
18.	Know the difference between chemical & physical changes of matter. Phase change
	is the consequenced and the control of the control
19.	is Know the atomic structure: protons, neutrons, electrons, etc. What is a valence e-:
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20.	Know the 22 element names & symbols:,,
0.1	Know the groups, periods, & metalloids of the periodic table.
21.	Know the groups, periods, & metalloids of the periodic table.
22.	Least reactive:; Most reactive:
23.	Know the different shells around the nucleus of the atom. 2 electrons in the shell,
0.4	8 electrons in the shell, electrons in the shell.
	How can you tell if the outer shell () is full?
	Know difference between the hydrogen & helium atoms.
	Break down a chemical formula into atoms. CaCO3 =
	Review the periodic table (groups, periods, metals, non-metals, metalloids)
28.	Review notes about elements, metals, non-metals, compound, elements, molecule,
	chemical reactions, mole, ½ life, valence e, carbon-14 dating.

9.	Know the 22 element names & symbols:,,,
).	Know the difference between cations & anions. Cations are:
	; anions are:; anions are:; anions are:; anions are:; A combination of elements that has properties different than properties of each of the elements in it describes:
	A Mixture has:
	Recognize a compound from an element from a mixture.
	Know synthesis reaction from decomposition reaction. Synthesis:
	Decomposition:
	Know the relationship between a valence e- & chemical properties of an element.
	A molecule:
	Know the quantity of a mole. The mass # of any element is the in g
•	Mass # of oxygen is 16, the molar weight of oxygen
	Be able to identify how many moles are in any g of a compound. Ex: How many moles are in $2.47g$ of NaCl: $2.47g / 58g = 0.04$ moles. Review your worksheets.
	A half-life is defined as:
10.	Review the half-life worksheet. How many years does it take for half of
	carbon-14 to decay?; How much of carbon-14 has
	decayed after 4 half-lives?
	Review carbon-14 dating. It is the most accurate form of absolute age dating during the years of 1,000 to 50,000 yrs.
	Review all reference handouts & notes on: force, laws of motion, speed &
	acceleration, velocity, momentum, heat calculations, work, & power. What is physics?
	1 st law of motion:
	2 nd law of motion:
	3 law of motion:
	What is the resultant force?
	$F = m \times a$: force of 25N acts on a mass of 2kg, what is the acceleration:
	F = m x a: force of 25N acts on a mass of 2kg, what is the acceleration: Inertia: Friction:

	What force is necessary to maintain a constant state of motion:
	Why?
	Velocity describes:
52.	What is the velocity of a truck traveling a total of 50 Km north in 2 hrs?
53.	What is the momentum of a 6,000kg bus moving at 10 m/s?
54.	Acceleration:
55.	A girl is pushing a rock 5m away with a force of 12N. What is the work done?
56.	3 types of rocks in the Rock Cycle: Igneous: (),
	Sedimentary (), & Metamorphic (
57.	Large crystals in Igneous rocks:
58.	Small crystals in Igneous rocks:
	Parent rock:
60.	Rock cycle processes: Igneous: ; Sedimentary:
	; Metamorphic:
61.	Alternative energy:
62.	Know both Potential & Kinetic energy.
63.	what is Mechanical Adu
64.	with the same of t
65.	What is energy?

STUDY! Good luck!