

SNC2D - Grade 10 Academic Science

Review for Final Exam

	Biology	Chemistry	Optics
Topics	stages of mitosis organelle functions eukaryotic vs prokaryotic organisms tissue types and functions structural hierarchy of organisms organ systems structures/functions plant cells vs animal cells reason for small cell size osmosis vs diffusion drawing and labelling organ systems stages of mitosis cancer treatments	formulas /names of compounds types of reactions ionic vs molecular compounds characteristics of acids and bases identifying ionic charges for polyatomic compounds counting atoms in compounds atoms vs ions molecular diagrams patterns in the periodic table clues for chemical changes writing names and formulas writing and balancing equations neutralization equations acid - base indicators (phenolphthalein) identifying reaction types law of conservation of mass	methods of producing light characteristics of images (lenses) characteristics of images (mirrors) refraction critical angle laws of reflection for mirrors/lenses diffuse vs specular reflection index of refraction objects in plane mirrors convex/concave diagrams diagram refraction SALT characteristics locating images calculating index of refraction methods of producing light
Text Review Questions	Pg 64 # 3-4, 6-7 Pg 66 # 1-4, 9-11, 13 [1 – 4 cells] Pg 116 # 1-7, 12 Pg 118 # 1-14, 17 Pg 158 # 1-3, 5-6, 9, 11-12, 14-15, 18-20, 22-24, 26-27, 30, 35, 46, 59	Pg 216 # 5-11 Pg 218 # 2-10, 19 Pg 258 # 1, 3, 7, 9, 11, 17(a), 18(a) Pg 260 # 1-13 Pg 294 # 1-3(a,b,d,e), 5, 6, 8-11, 13 Pg 296 # 1-4, 6-10, 13, 15-16, 18-19 Pg 302 # 2-4, 8-17, 23, 25, 35-37, 39, 41, 44, 45, 47-49, 53-54, 56, 57	Pg 506 #1, 3-7, 9-13, 17-19 Pg 508 # 3-9, 19, 23 Pg 542 # 2-6, 10, 15-20 Pg 544 # 1-2, 4-11, 14-15 Pg 590 # 1-7, 12-14, 16, 22-23, 25, 28, 30-31, 34, 36, 40, 43, 46, 51-61

* a periodic table, polyatomics sheet, and optics formulas are provided with the exam

Note: Not all the topics have a correlated question on the exam.

You will need:

- ✓ Pencil and pen
- ✓ Calculator
- ✓ Eraser
- ✓ Ruler
- ✓ Protractor

} All to be placed inside a CLEAR Ziploc Bag

**** Your textbook must be returned on the last day of classes**

OR

as you enter the classroom the day of the exam!