**SNC 1DI – Daily Outline**

✓ - got it ? – sort of got it x – don’t got it

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| **INTRODUCTION** | | | | | | | |
| **Day** | **Title** | **Home**  **Work** | **Topics** | **✓ ? x**  **Day of**  **Lesson** | **✓ ? x**  **Before**  **test** | **✓ ? x**  **On**  **test** | **✓ ? x**  **Before**  **exam** |
| 1 | Intro to SNC 1DI | HO’s WHMIS | Safety WHMIS symbols |  |  |  |  |
| 2 | What is science? | HO – hypothesis  HO – Science Inquiry | Science definition |  |  |  |  |
| Technology definition |  |  |  |  |
| Environment definition |  |  |  |  |
| Society definition |  |  |  |  |
| Scientific method |  |  |  |  |
| Hypothesis |  |  |  |  |
| 3 | Numbers and Variables | HO – sci. notation  HO – Metric mania  HO – using SI  HO – Sig. Digits  HO – QLvs QN | Control |  |  |  |  |
| Variable |  |  |  |  |
| Metric system (SI) |  |  |  |  |
| Scientific notation |  |  |  |  |
| Significant digits |  |  |  |  |
| Qualitative |  |  |  |  |
| Quantitative |  |  |  |  |
| Inference |  |  |  |  |
| 4 | Labs | Finish Lab – incomplete combustion | Lab report format |  |  |  |  |
| Lab safety |  |  |  |  |
| Incomplete combustion |  |  |  |  |
| Parts of a Bunsen burner |  |  |  |  |
| 5 | Labs | Finish lab – complete combustion | Complete combustion |  |  |  |  |
| Bunsen burner settings for complete and incomplete combustion |  |  |  |  |
| 6 | Accuracy, precision, density | HO – accuracy vs. precision  HO - density  HO - Density work problems  HO – Density worksheet | Accuracy |  |  |  |  |
| Precision |  |  |  |  |
| Density |  |  |  |  |
| Density Math problems |  |  |  |  |
|  |  |  |  |  |
| 7 | Density activity | HO’s – density from day 6 | Measuring length |  |  |  |  |
| Volume by l\*w\*h |  |  |  |  |
| Volume by water displacement |  |  |  |  |
| Finding mass on a balance |  |  |  |  |
| Calculating density |  |  |  |  |
| 8 | Graphing | HO’s – graphing  Graphs from day 7 | Graphing |  |  |  |  |
| 9 | Candle Lab | HO – candle lab  Quest tomorrow | Making good observations |  |  |  |  |
| Observation vs. Inference |  |  |  |  |

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| **Chemistry** | | | | | | | |
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| 1 | **Intro quest** and intro to chem | Ancient vs. modern states of matter | Dihydrogen monoxide morals |  |  |  |  |
| States of matter |  |  |  |  |
| 2 | Kinetic Molecular Theory | Read - Leap Years | Chemistry definition |  |  |  |  |
| Matter/atoms/molecules |  |  |  |  |
| KMT statements |  |  |  |  |
| 3 | Properties of Matter | -HO – particle theory and change of state  -Wet paper towel experiment | Properties of matter |  |  |  |  |
| Temperature |  |  |  |  |
| Heat |  |  |  |  |
| Change of State names and energy change |  |  |  |  |
| 4 | Physical Properties of Matter | Quiz soon | Physical properties of matter |  |  |  |  |
| 5 | Changes in Matter | Quiz soon | Physical change |  |  |  |  |
| Chemical change |  |  |  |  |
| Evidence for chem change |  |  |  |  |
| 6 | Chem/Phys change Lab | Write full lab report | Identify chemical vs. physical change |  |  |  |  |
| 7 | Classifying matter | -HO – classifying matter  -Quiz soon | Physical properties |  |  |  |  |
| Chemical properties |  |  |  |  |
| Homogeneous mixture |  |  |  |  |
| Heterogeneous mixture |  |  |  |  |
| Pure substance |  |  |  |  |
| Element |  |  |  |  |
| Compound |  |  |  |  |
| Suspension |  |  |  |  |
| colloid |  |  |  |  |
| 8 | Elements | -Memorize symbols  -HO – gold dust kid  -??Element ass’t?? | Electrolysis of water |  |  |  |  |
| Element origins |  |  |  |  |
| Element symbols |  |  |  |  |
| 9 | The Atom | Spell your name | Early development of Atomic theory - Democritus to Dalton |  |  |  |  |
| 10 | The Atom cont’d | Development of atomic theory review | Rutherford’s experiment |  |  |  |  |
| Bohr |  |  |  |  |
| Spectra |  |  |  |  |
| 11 | The Atom cont’d | ??Continue element ass’t?? | Proton |  |  |  |  |
| Neutron |  |  |  |  |
| Atomic number |  |  |  |  |
| Atomic mass |  |  |  |  |
| electron |  |  |  |  |

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| 12 | The Atom cont’d | -Standard atomic notation, bohr diagrams for elements 1-20  -HO – the atom | Parts of the atom |  |  |  |  |
| Standard atomic notation |  |  |  |  |
| Isotopes |  |  |  |  |
| Bohr diagrams |  |  |  |  |
| Basic periodic table features |  |  |  |  |
| Electron levels – 2,8,8,8 |  |  |  |  |
| 13 | Compounds and Formulas | -HO – chemical formulas  -HO – how to count atoms | Compounds |  |  |  |  |
| Subscripts in compounds |  |  |  |  |
| Coefficients in front of compound |  |  |  |  |
| More basic periodic table features |  |  |  |  |
| 14 | The Periodic Table | Review notes, think and digest todays’ lesson. Everything so far has Pb to this (get it? Lead) | periodic |  |  |  |  |
| Periodic table arrangement |  |  |  |  |
| Similarity between Li, Na, K |  |  |  |  |
| Family numbers |  |  |  |  |
| Main group |  |  |  |  |
| Valence shell |  |  |  |  |
| Lewis diagrams |  |  |  |  |
| Noble gasses |  |  |  |  |
| Bonding rules |  |  |  |  |
| 15 | Reacitivity and Bonding | HO – combining capacity | Reactivity |  |  |  |  |
| Trends in reactivity |  |  |  |  |
| Bonding rules applied to make compounds |  |  |  |  |
| Criss-cross rule |  |  |  |  |
| 16 | CO2, H2O, O2 | -Finish activity handouts  -Breathe in oxygen and exhale carbon dioxide | Chemical reactions |  |  |  |  |
| Reactant |  |  |  |  |
| Product |  |  |  |  |
| Word equation |  |  |  |  |
| Formula equation |  |  |  |  |
| Splint test for each gas |  |  |  |  |
| 17 | Producing gases | Chpt 4,5,6 ass’t | Formula equation for the production of CO2, H2O, O2 |  |  |  |  |
| 18 | Chpt 4,5,6 ass’t | Chpt 4,5,6 ass’t |  |  |  |  |  |
| 19 | Chpt 4,5,6 ass’t | Chpt 4,5,6 ass’t |  |  |  |  |  |
| 20 | Review |  |  |  |  |  |  |
| 21 | **Test - Chemistry** | | | | | | |

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| **Physics – Electricity** | | | | | | | | |
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| 1 | Sources of Electrical Energy | Look over chemistry test | generator |  |  |  | |  |
| chemical electricity |  |  |  | |  |
| solar photovoltaic |  |  |  | |  |
| peizo-electric |  |  |  | |  |
|  |  |  |  | |  |
| 2 | Static Electricity | R+MN 388-393, 10.1  pg 398#1-5  pg 401#1-5 | static elec. definition |  |  |  | |  |
| lightning |  |  |  | |  |
| insulators |  |  |  | |  |
| conductors |  |  |  | |  |
| law of electric charges |  |  |  | |  |
| transfer of electrons |  |  |  | |  |
| 3 | Electricity lab 1 | 10.1 pg 403#1-14 | law of static charges |  |  |  | |  |
| 4 | Charging | R+MN 10.2  pg 409#1-5 | charging by conduction |  |  |  | |  |
| charging by induction |  |  |  | |  |
| 5 | Electricity assignment | R+MN 10.3  Pg 417 #1-7  Pg 420 #1-5 Pg 424 D10  Pg 425 D11  Pg 426 #1-16  HO - Applications of Static Electricity | lightning fact vs. fiction |  |  |  | |  |
| lightning rods |  |  |  | |  |
| static at home |  |  |  | |  |
| uses of static charges |  |  |  | |  |
| environment applications |  |  |  | |  |
|  |  |  |  | |  |
| 6 | Activities D5,D6, D7 | re-read 10.2  pg 415#1-11  work on ass’t | charging by contact |  |  |  | |  |
| charging by induction |  |  |  | |  |
|  |  |  |  | |  |
| 7 | work period | read 427  pg 428#1-23  work on ass’t |  |  |  |  | |  |
| 8  2 d  a  y  s  ?? | Circuits | HO - OHMZONE | current electricity |  |  |  | |  |
| AC vs. DC |  |  |  | |  |
| negative terminal |  |  |  | |  |
| positive terminal |  |  |  | |  |
| circuit |  |  |  | |  |
| symbols for circuits |  |  |  | |  |
| series circuit |  |  |  | |  |
| parallel circuit |  |  |  | |  |
| current |  |  |  | |  |
| potential difference |  |  |  | |  |
| resistance |  |  |  | |  |
| drawing circuits |  |  |  | |  |

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| 9 | current elec. Summary and circuit analysis | HO-circuit analysis | resistance rule series |  |  |  |  |
| voltage rule series |  |  |  |  |
| current rule series |  |  |  |  |
| resistance rule parallel |  |  |  |  |
| voltage rule parallel |  |  |  |  |
| current rule parallel |  |  |  |  |
| equivalent resistance complex circuits |  |  |  |  |
| 10 | Snappy circuits 1,2 |  |  |  |  |  |  |
| 11 | Snappy circuits 3 |  |  |  |  |  |  |
| 12 | Ohm’s Law | HO – ohm’s law | ohm’s law |  |  |  |  |
| 13 | circuits review | meter reading ass’t  R+MN 12.2  D28 pg 491  pg 492#2  pg 493#1,2,3  pg 498 #1-16 | wiring at home |  |  |  |  |
| meter reading |  |  |  |  |
|  |  |  |  |  |
| 14 | Miscellany | R+MN 432-436  pg 436#1-5  R+MN 12.1  pg 479#1-5  pg 483#1-5  D26 pg 486#1,3  pg 489#1-12  pg 500#1-12 | electric animals |  |  |  |  |
| electricity generation |  |  |  |  |
|  |  |  |  |  |
| 15 | Energy conservation | HO-energy conservation ass’t | Canadian energy use |  |  |  |  |
| appliance power ratings |  |  |  |  |
| appliance energy use |  |  |  |  |
| efficiency |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 16 | ??energy resource project?? |  |  |  |  |  |  |
| 17 | review for test or video |  |  |  |  |  |  |
| 18 | review |  |  |  |  |  |  |
| 19 | review |  |  |  |  |  |  |
| 20 | **Test - Electricity** | | | | | | |

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| **ECOLOGY** | | | | | | | |
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| 1 | ECOLOGY ASSIGNMENT | -work on eco. ass’t |  |  |  |  |  |
| 2 |  | -work on eco. ass’t |  |  |  |  |  |
| 3 |  | -work on eco. ass’t |  |  |  |  |  |
| 4 |  | -work on eco. ass’t |  |  |  |  |  |
| 5 |  | -work on eco. ass’t |  |  |  |  |  |
| 6 |  | -work on eco. ass’t |  |  |  |  |  |
| 7 |  | -work on eco. ass’t |  |  |  |  |  |
| 8 |  | -work on eco. ass’t |  |  |  |  |  |
| 9 | Laurel Creek Field Trip |  |  |  |  |  |  |
| 10 | The Lorax |  |  |  |  |  |  |
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| **EARTH AND SPACE** | | | | | | | |
| space ass’t | | READ - Article Package  READ - Chapter 7   * pg 267 #1-13 * pg 269 C5   extra - (using info on page 254 – estimate the number of galaxies in the universe)   * pg 276 C7 * pg 277#1-12 * pg 288#1-11   READ – Chapter 8   * pg 305#1-12 * pg 331#1-11   READ – Chapter 9   * pg 339 C 1 * pg 350 C24 * pg 351#1-8,10,11 * pg 363#1-12 * pg 365 C28 * pg 374#1-10 * chapter 7 review * chapter 8 review * chapter 9 review | | | | | |
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| 1 | Intro to space | -bathroom tissue universe  -work on ass’t | open floor to questions |  |  |  |  |
| modern reasons for the study space |  |  |  |  |
| historical reasons for the study of space |  |  |  |  |
| 2 | Measurement in space  (powerpoint) | -HO-trigonometry  -work on ass’t | size of space |  |  |  |  |
| gravity |  |  |  |  |
| triangulation and parallax |  |  |  |  |
| light year |  |  |  |  |
| scale of the universe |  |  |  |  |
| Cepheid variables |  |  |  |  |
| number of stars |  |  |  |  |
| types of galaxies |  |  |  |  |
| galactic collisions |  |  |  |  |
| 3 | The sky | -The Sky HO/OH  -Big dipper handout  -Make a star map  -work on ass’t | finding the north star |  |  |  |  |
| planets |  |  |  |  |
|  |  |  |  |  |
| 4 | Our Solar System  (power point) | -work on ass’t | celestial motion |  |  |  |  |
| relative sizes of planets |  |  |  |  |
| retrograde motion |  |  |  |  |

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| 5 | the expanding universe | -work on ass’t | Doppler effect |  |  |  |  |
| big bang |  |  |  |  |
| 6 | Stars | observe ORION  -work on ass’t | Star formation |  |  |  |  |
| Properties of stars |  |  |  |  |
| 7 | Earth’s neighbours | -Sun Earth Moon activity HO’s  -work on ass’t | sun |  |  |  |  |
| moon |  |  |  |  |
| tides |  |  |  |  |
| asteroids |  |  |  |  |
| comets |  |  |  |  |
| 8 | Use of Space | -work on ass’t | orbit |  |  |  |  |
| GPS |  |  |  |  |
| SETI |  |  |  |  |
| 9 |  | -work on ass’t |  |  |  |  |  |
| 10 |  | -work on ass’t |  |  |  |  |  |
| 11 |  | review |  |  |  |  |  |
| 12 | **Test - Space** | | | | | | |
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