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| **STUDENT UNIT PLANNER** |
| **Year Level:** | 8 | Student check list:  when you know… |
| **Subject:**  | Science | [ ] Assessment due dates[ ] The learning goals and success criteria for this term [ ] Changes to routines e.g. excursions[ ] When assessment practice lessons will occur [ ] When revision lessons will occur |
| **Term/Year:** | 1 / 2023 |  |
| **Unit Title:**  | What’s the Matter? |  |
| **Assessment:** | Exam week 6, Assignment due week 9 |  |
| **Key Resource:**  | Stile App, Science Ways 1 – Unit 1 & 11, Science Ways 2 – Unit 9  |  |
| **WK** | **Wk. Beg** | **Lesson 1** | **Lesson 2**  | **Lesson 3**  |
| 1 | 23 Jan. 23 | **Review of concepts from year 7** Introduce chemistry unitLaboratory Safety & evacuation proceduresSet expectations.  | **LG1 – SC1****Atoms, Molecules, Elements, Compounds**Definitions and examplesDrawing pictures of simple elements, compounds and mixtures using symbols and chemical formulae | **LG1 – SC2****Timeline of element concept.** |
| 2 | 30 Jan. 23 | **LG1 – SC3****Identifying chemical symbols in the periodic table**First 20 elements – names, number, symbols, position on Periodic Table | **LG1 – SC3****Identifying chemical symbols in the periodic table**First 20 elements plus Fe,Cu,Zn Ag,Au | **LG 1 - SC1**Model, using 2 dimensional and 3 dimensional models, the arrangement of particles in molecules and compounds. **Activity**Molecule building |
| 3 | 6 Feb. 23 | **LG 1 - SC1**Model, using 2 dimensional and 3 dimensional models, the arrangement of particles in molecules and compounds. **Activity -** Molecule building | **LG2 – SC5****Mixtures**Pure substances and mixtures.Percentage composition of mixtures. | **LG2 – SC6****Mixtures**Classify mixtures as solutions, suspensions or colloids |
| 4 | 13 Feb. 23 | **LG2 – SC7****Mixtures**Properties of mixtures dependant on percent composition | **LG3 - SC8****Physical and chemical change**Identifying the differences between chemical and physical change.Identify 4 pieces of evidence that a chemical change has taken place | **LG3- SC8, SC9****Stile lesson**Elements and Compounds, Chemical and Physical Change |
| 5 | 20 Feb. 23 | **LG3- SC8, SC9****Stile lesson**Elements and Compounds, Chemical and Physical Change | **LG3 – SC9**Investigate simple reactions such as combining elements to make a compound | Catch up lesson |
| 6 | 27 Feb. 23 | **Revision** | **Revision** | **EXAM**  |
| 7 | 6 Mar. 23 | **LG4****Experiment**Melting chocolate fair testCarry out experiment and collect data | **LG4****Experiment**Melting chocolate fair testConstruct tables and graphs to represent relationships and trends in the collected data  | **LG4****Experiment**Melting chocolate fair testConclusion and evaluation of experiment |
| 8 | 13 Mar. 23 | **LG4****ASSIGNMENT OUT*** Aim
* Hypothesis
* Variables
* Risk Assessmet
 | **LG4****Assignment*** Method
* Diagram
* Trials
 | **LG4****Assignment*** Conduct experiment
* Record results
* Calculate averages
 |
| 9 | 20 Mar. 23 | **LG4****Assignment*** Conduct experiment
* Record results
* Calculate averages
 | **LG4****Assignment*** Conclusion
 | **LG4****ASSIGNMENT DUE** |
| 10 | 27 Mar. 23 | **Follow up assessment**.  | **Optional Experiments** * Ice-cream in a bag experiment
* Stile practical activity – skill builder

 Measurement stations* Stile practical - elements and compounds

3.2 Burning Magnesium | **End of term** |