Row 1 Marking key

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| **Mark** | **Periodic Table**  *Design a study guide on the periodic table. You must have at least 15 questions and include an answer key on a separate sheet of paper.* | **Atomic Model & Counting Atoms**  *Write a letter to a friend teaching them how to draw Bohr’s Model.* | **Physical & Chemical Changes**  *Create a word cloud of ten physical and ten chemical properties and changes. On a separate page, give your definition/understanding of each word.* | **Pure Substances & Mixtures**  *Write a poem, rap, or song about pure substances and mixtures. You must include the difference between each and examples.* | **States of Matter**  *Write an explanation of the four states of matter. Describe the particle motion for each state.* |
| 1 | Questions are rushed and poorly presented. Some answers are wrong, or missing. No thought to what a study guide would look like. Completed as a page of questions and answers. | Letter is rushed, minimal detail to keep it as a letter teaching them, rather just facts. More than 5 punctuation and grammatical errors and spelling mistakes. No clear paragraphs. | Word cloud contains less than 10 words for each. Definitions copied with no ‘translation’. | Not presented as a poem, rap or song. Definition is given but there is no explanation of the difference between them and examples | Four states of matter stated with diagrams, simple, perhaps unclear examples given. |
| 2 | Questions and answers are completed, presentation is simple. Some answers could have more detail. Not all answered correctly, more than just Y/N, or multiple choice. | Written as a letter throughout. Paragraphs. Attempts to explain the structure but contains errors in description. No more than 3 punctuation and grammatical errors and spelling mistakes. | Word cloud contains all 10 words for each. Definitions given with some ‘translation’. | Presented as a poem, rap or song. Definition, difference and examples are OK, but perhaps not the best choice to truly illustrate the point. | Four states of matter described with diagrams, examples given. Some mention of the behaviour of particles. |
| 3 | Questions and answers are well prepared, answered correctly, a variety of question types. Presentation is neat and it looks like something that would be easy to use as a study guide. | Letter is correctly formatted and explains the structure of the atom. Has a labelled diagram to help. Less than 1 punctuation and grammatical errors and spelling mistakes. | Word cloud contains all 10 words for each. It is possible to see which words are for physical, chemical. Definitions are seen and are clearly written in student language. | Presented as a poem, rap or song. Definition, difference and examples are excellent. | Four states of matter described with diagrams, examples given. Some mention of the behaviour of particles and how this might impact the behaviour of the state. |

Row 2 marking key

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| **Mark** | **Periodic Table**  *Make a comparison chart for metals, nonmetals, and metalloids. Include examples, the total number and characteristics of each type.* | **Atomic Model & Counting Atoms**  *Draw Bohr’s Model for following atoms: Hydrogen, Helium, Potassium,& Neon. Include the number of protons, neutrons, and electrons for each. Design a key for each particle.* | **Physical & Chemical Changes**  *Illustrate five examples of physical and five examples of chemical changes. Include a description for each.* | **Pure Substances & Mixtures**  *Plan a meal that has 3 pure substances and 3 mixtures. Include what type of mixture each item is.* | **States of Matter**  *Write an explanation of the four states of matter. Describe the particle motion for each state.* |
| 1 | Gives a list of obvious physical properties of groups. | Not all diagrams drawn. No key. | Five examples for each given. | Meal planned but the pure substances and mixtures are not (correctly) identified. | Names the transitions through the states of matter. |
| 2 | Makes a table to show the comparison between the groups. Some properties missing. Table jumps between properties. | All diagrams drawn. Not labelled correctly. Key is easily read. | Five examples for each given, neatly illustrated. Labelled, though might not be neat. | Meal planned. Pure substances and mixtures identified. No or incorrect description of the type of mixture. | Describes in simple terms the transition through the states. Diagram to support. |
| 3 | Makes a table to show the comparison between the groups. Adequate number of properties given. Property lines up across table. | All diagrams drawn neatly. Labelled correctly and neatly. Key is easily read. | Five examples for each given, neatly illustrated. Description of how the illustration relates to the description. | Meal planned. Pure substances and mixtures identified. Correct description of the type of mixture. | Description of the transition through the states refers to energy and movement of the particles and how this relates to the properties of each state. Diagram supports written description. |

Row 3 marking key

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| **Mark** | **Periodic Table**  *Write a news report explaining how the periodic table is organized. Take on the role of reporter and inform your viewers. You may create a video or produce written dialogue.* | **Atomic Model & Counting Atoms**  *Complete a chemical formula table for five compounds. Write the formula on one side and the “ingredients” on the other side. Write detailed instructions on how to count atoms. Include at least three examples that are labeled.* | **Physical & Chemical Changes**  *Make a video showing five real-life examples of physical and chemical changes. Make a Venn diagram comparing and contrasting physical and chemical changes.* | **Pure Substances & Mixtures**  *Draw a Venn diagram comparing and contrasting pure substances and mixtures.*  *Compose ten tweets to help others identify differences between pure substances and mixtures. (120 characters or less for each)* | **States of Matter**  *Draw the water cycle. Label and describe how it demonstrate at least four phase changes.* |
| 1 | Reads to the camera. Not a news report. Describes periodic table going up in numbers. | Gives the chemical formula for five compounds. Table missing headings. ‘Ingredients’ incorrectly given. | Video gives some examples of changes. No written to support. | Similarities and differences given as a table. | Names the transitions through the states of matter. |
| 2 | Follows the news report format. Describes groupings but not a clear understanding of why. | Gives the chemical formula and ‘ingredients’ for five compounds. Table has correct formatting. Instructions given for counting atoms, lacking some detail. | Video gives 5 real life examples of each. Written examples are given but no real explanation of what makes them physical/chemical. | Venn diagram which is correctly and neatly titled/labelled. | Describes in simple terms the transition through the states. Diagram to support. |
| 3 | Follows the news report format. Describes grouping by common properties. Might make mention of sub-atomic particles. | Gives the chemical formula and ‘ingredients’ for five compounds. Table has correct formatting. Clear instructions given for counting atoms. | Video gives 5 real life examples of each. Written examples are given with explanation of what makes them physical/chemical. | Venn diagram which is correctly and neatly titled/labelled. Pure substances and mixtures are correctly entered. | Description of the transition through the states refers to energy and movement of the particles and how this relates to the properties of each state. Diagram supports written description. |