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Research and Inquiry																																
■ Objective 1 The learner will be able to determine whether new evidence supports or discredits a hypothesis.																																
■ Objective 2 The learner will be able to give evidence to defend an argument.																																
■ Objective 3 The learner will be able to give evidence to refute an argument.																																
■ Objective 4 The learner will be able to identify the research objective in an experiment.																																
■ Objective 5 The learner will be able to understand the research objective in an experiment.																																
■ Objective 6 The learner will be able to comprehend a scientific experiment.																																
■ Objective 7 The learner will be able to understand how the information obtained from one experiment might be used in a new situation.																																
■ Objective 8 The learner will be able to integrate the objective and procedure of a scientific experiment.																																
■ Objective 9 The learner will be able to integrate the objective and variables of a scientific experiment.																																

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■ Objective 10 The learner will be able to integrate the variables and procedure of a scientific experiment.																																
■ Objective 11 The learner will be able to integrate the variables and results of a scientific experiment.																																
■ Objective 12 The learner will be able to integrate the procedure and results of a scientific experiment.																																
■ Objective 13 The learner will be able to integrate the objective and results of a scientific experiment.																																
■ Objective 14 The learner will be able to recognize how results of scientific experiments are similar or different.																																
■ Objective 15 The learner will be able to identify trends in the results of similar scientific experiments.																																
■ Objective 16 The learner will be able to understand the effect manipulated factors have on the results of a scientific investigation.																																
■ Objective 17 The learner will be able to determine what kind of influence the results of an experiment have on one's comprehension of the world.																																
■ Objective 18 The learner will be able to interpret the results of an experiment.																																
■ Objective 19																																

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The learner will be able to make generalizations regarding the results of investigations.																																
■ Objective 20 The learner will be able to identify the conflict between alternative scientific arguments.																																
■ Objective 21 The learner will be able to identify the assumptions made to support a scientific argument.																																
■ Objective 22 The learner will be able to recognize the strong points in a scientific argument.																																
■ Objective 23 The learner will be able to identify the central point of a scientific argument.																																
■ Objective 24 The learner will be able to recognize the weak points in a scientific argument.																																
■ Objective 25 The learner will be able to identify trends in a scientific argument.																																
■ Objective 26 The learner will be able to understand the conflict between alternative arguments.																																
■ Objective 27 The learner will be able to describe alternative scientific arguments.																																
■ Objective 28 The learner will be able to understand the concepts involved in a scientific argument.																																

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■ Objective 29 The learner will be able to understand the evidence supporting alternative arguments.																																
■ Objective 30 The learner will be able to describe the concepts involved in a scientific argument.																																
■ Objective 31 The learner will be able to understand alternative scientific arguments.																																
■ Objective 32 The learner will be able to determine what type of evidence might solve the conflict between alternative arguments.																																
■ Objective 33 The learner will be able to compare alternative scientific arguments.																																
■ Objective 34 The learner will be able to interpret alternative scientific arguments.																																
■ Objective 35 The learner will be able to integrate facts from alternative scientific arguments.																																
■ Objective 36 The learner will be able to evaluate alternative scientific arguments.																																
■ Objective 37 The learner will be able to identify the variables in a graph.																																
■ Objective 38 The learner will be able to identify the variables in a																																

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table.																																
■ Objective 39 The learner will be able to identify the variables in a chart.																																
■ Objective 40 The learner will be able to recognize a scatter diagram.																																
■ Objective 41 The learner will be able to recognize how the information in a chart or passage would be best displayed in graph form.																																
■ Objective 42 The learner will be able to read graphs.																																
■ Objective 43 The learner will be able to comprehend charts.																																
■ Objective 44 The learner will be able to comprehend tables.																																
■ Objective 45 The learner will be able to comprehend illustrations.																																
■ Objective 46 The learner will be able to understand how the variables in a graph are measured.																																
■ Objective 47 The learner will be able to understand how the variables in a table are measured.																																
■ Objective 48 The learner will be able to understand how the variables in a chart are measured.																																
■ Objective 49 The learner will be able to understand the relationship																																

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between variables in a graph.																																
■ Objective 50 The learner will be able to understand the relationship between variables in a table.																																
■ Objective 51 The learner will be able to understand the relationship between variables in a chart.																																
■ Objective 52 The learner will be able to read a scatter diagram.																																
■ Objective 53 The learner will be able to understand what the variables are on a scatter diagram.																																
■ Objective 54 The learner will be able to understand how the variables are measured on a scatter diagram.																																
■ Objective 55 The learner will be able to understand how the variables are related on a scatter diagram.																																
■ Objective 56 The learner will be able to understand the meaning of "best-fit" line in reference to a scatter diagram.																																
■ Objective 57 The learner will be able to understand a flow chart.																																
■ Objective 58 The learner will be able to find relationships in graphs.																																
■ Objective 59 The learner will be able to find relationships in tables.																																
■ Objective 60 The learner will be able to find relationships in charts.																																

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■ Objective 61 The learner will be able to find relationships in illustrations.																																
■ Objective 62 The learner will be able to extrapolate data from a chart.																																
■ Objective 63 The learner will be able to extrapolate data from a table.																																
■ Objective 64 The learner will be able to apply material given in graphs to new situations.																																
■ Objective 65 The learner will be able to apply material given in tables to new situations.																																
■ Objective 66 The learner will be able to apply material given in charts to new situations.																																
■ Objective 67 The learner will be able to apply material given in illustrations to new situations.																																
■ Objective 68 The learner will be able to interpolate data on a graph.																																
■ Objective 69 The learner will be able to interpolate data on a table.																																
■ Objective 70 The learner will be able to interpolate data on a chart.																																
■ Objective 71 The learner will be able to interpolate data on a scatter diagram.																																
■ Objective 72																																

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The learner will be able to extrapolate data from a graph.																																
■ Objective 73 The learner will be able to analyze graphs.																																
■ Objective 74 The learner will be able to analyze charts.																																
■ Objective 75 The learner will be able to analyze tables.																																
■ Objective 76 The learner will be able to analyze illustrations.																																
■ Objective 77 The learner will be able to analyze a diagram.																																
■ Objective 78 The learner will be able to convert data presented in a chart or table to a graph.																																
■ Objective 79 The learner will be able to incorporate material from a graph with material from a scientific passage in order to answer a question.																																
■ Objective 80 The learner will be able to incorporate material from a table with material from a scientific passage in order to answer a question.																																
■ Objective 81 The learner will be able to incorporate material from a chart with material from a scientific passage in order to answer a question.																																
■ Objective 82 The learner will be able to incorporate material from an illustration with material from a scientific passage in																																

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order to answer a question.																																
■ Objective 83 The learner will be able to draw conclusions from the results of a scientific experiment.																																
■ Objective 84 The learner will be able to come to conclusions based upon alternative scientific arguments.																																
■ Objective 85 The learner will be able to adhere to the procedures of an experiment.																																
■ Objective 86 The learner will be able to understand the steps of the scientific method.																																
■ Objective 87 The learner will be able to identify the variables in an investigation.																																
■ Objective 88 The learner will be able to understand the variables in a scientific experiment.																																
■ Objective 89 The learner will be able to understand whether the beginning hypothesis is supported by the data in an experiment.																																
■ Objective 90 The learner will be able to recognize the control group within an experiment.																																
■ Objective 91 The learner will be able to understand the definition of a control.																																

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■ Objective 92 The learner will be able to differentiate between a control group and an experimental group.																																
■ Objective 93 The learner will be able to determine which test group is the experimental group and which is the control.																																
■ Objective 94 The learner will be able to predict what will happen in future experiments given the results of one investigation.																																
■ Objective 95 The learner will be able to understand the definition of exponential.																																
■ Objective 96 The learner will be able to recognize the assumptions in a scientific experiment.																																
■ Objective 97 The learner will be able to recognize the necessary information in a scientific passage.																																
■ Objective 98 The learner will be able to recognize the scientific concepts that the information is based on within a scientific passage.																																
■ Objective 99 The learner will be able to identify relationships between various segments of information from a scientific passage.																																
■ Objective 100 The learner will be able to recognize the scientific assumptions that the information is based on within a scientific passage.																																

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■ Objective 101 The learner will be able to describe the scientific concepts that the information is based on within a scientific passage.																																
■ Objective 102 The learner will be able to describe the scientific assumptions that the information is based on within a scientific passage.																																
■ Objective 103 The learner will be able to explain a scientific passage in the form of a summary.																																
■ Objective 104 The learner will be able to apply material given in scientific passages to new situations.																																
■ Objective 105 The learner will be able to restate distinct parts of a scientific passage.																																
■ Objective 106 The learner will be able to find relationships in a scientific passage.																																
■ Objective 107 The learner will be able to relate events described in a scientific passage to new situations.																																
■ Objective 108 The learner will be able to analyze scientific passages.																																
■ Objective 109 The learner will be able to identify a linear graph.																																
■ Objective 110 The learner will be able to understand what the independent and dependent variables are on a linear																																

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graph.																																
■ Objective 111 The learner will be able to understand how the variables are measured on a linear graph.																																
■ Objective 112 The learner will be able to understand how the variables are related on a linear graph.																																
■ Objective 113 The learner will be able to read a linear graph.																																
■ Objective 114 The learner will be able to differentiate between positive and negative linear relationships on a graph.																																
■ Objective 115 The learner will be able to extrapolate data from a straight line graph.																																
■ Objective 116 The learner will be able to understand how to read a bar graph.																																
■ Objective 117 The learner will be able to recognize an exponential graph.																																
■ Objective 118 The learner will be able to understand what the independent and dependent variables are on an exponential graph.																																
■ Objective 119 The learner will be able to understand how the variables are measured on an exponential graph.																																
■ Objective 120																																

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The learner will be able to understand how the variables are related on an exponential graph.																																
■ Objective 121 The learner will be able to read an exponential graph.																																
■ Objective 122 The learner will be able to interpolate data on an exponential graph.																																
■ Objective 123 The learner will be able to extrapolate data from an exponential graph.																																
■ Objective 124 The learner will be able to identify a coordinate graph.																																
■ Objective 125 The learner will be able to understand how to read a coordinate graph.																																
■ Objective 126 The learner will be able to understand what the independent and dependent variables are on a coordinate graph.																																
■ Objective 127 The learner will be able to understand how the variables on a coordinate graph are measured.																																
■ Objective 128 The learner will be able to understand the relationship between variables on a coordinate graph.																																
■ Objective 129 The learner will be able to interpolate data on a coordinate diagram.																																
■ Objective 130																																

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The learner will be able to extrapolate data from a coordinate diagram.																																
■ Objective 131 The learner will be able to interpret scientific data.																																