

**Grade 7**

**SCIENCE PROCESSES AND INQUIRY**

**Process Standard 1: Observe and Measure**

1. Identify qualitative and/or quantitative changes given conditions (e.g., temperature, mass, volume, time, position, length) before, during, and after an event.

EPAS Strand and Score Range: *Interpretation of Data: 13-15, 16-19, & 24-27*

2. Use appropriate tools (e.g., metric ruler, graduated cylinder, thermometer, balances, spring scales, stopwatches) when measuring objects, organisms, and/or events.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

3. Use appropriate System International (SI) units (i.e., grams, meters, liters, degrees Celsius, and seconds); and SI prefixes (i.e., micro-, milli-, centi-, and kilo-) when measuring objects, organisms, and/or events.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

**Process Standard 2: Classify**

1. Use observable properties to place an object, organism, and/or event into a classification system (e.g., dichotomous keys).

EPAS Strand and Score Range: *Interpretation of Data: 13-15, 16-19, & 20-23*

2. Identify properties by which a set of objects, organisms, and/or events could be ordered.

EPAS Strand and Score Range: *Interpretation of Data: 13-15, 16-19, & 20-23*

**Process Standard 3: Experiment**

1. Ask questions about the world and design investigations that lead to scientific inquiry.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

2. Evaluate the design of a scientific investigation.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

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3. Identify variables and/or controls in an experimental setup (i.e., tested, experimental, and measured variables).

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

4. Identify a testable hypothesis for an experiment.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

5. Design and conduct experiments.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

6. Recognize potential hazards and practice safety procedures in all science activities.

**Process Standard 4: Interpret and Communicate**

1. Report data in an appropriate method when given an experimental procedure or data.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

2. Interpret data tables, line, bar, trend, and/or circle graphs.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

3. Evaluate data to develop reasonable explanations, and/or predictions.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

4. Accept or reject hypotheses when given results of an investigation.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

5. Communicate scientific procedures and explanations.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

**Process Standard 5: Inquiry**

1. Use systematic observations, make accurate measurements, and identify and control variables.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

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2. Use technology to gather data and analyze results of investigations.

EPAS Strand and Score Range:        *Scientific Investigation: 20-23*

3. Review data, summarize data, and form logical conclusions.

EPAS Strand and Score Range:        *Interpretation of Data: 20-23*

4. Formulate and evaluate explanations proposed by examining and comparing evidence, pointing out statements that go beyond evidence, and suggesting alternative explanations.

EPAS Strand and Score Range:        *Interpretation of Data: 24-27*

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**Grade 8**

**SCIENCE PROCESSES AND INQUIRY**

**Process Standard 1: Observe and Measure**

1. Identify qualitative and/or quantitative changes given conditions (e.g., temperature, mass, volume, time, position, length) before, during, and after an event.

EPAS Strand and Score Range: *Interpretation of Data: 13-15, 16-19, & 24-27*

2. Use appropriate tools (e.g., metric ruler, graduated cylinder, thermometer, balances, spring scales, stopwatches) when measuring objects, organisms, and/or events.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

3. Use appropriate System International (SI) units (i.e., grams, meters, liters, degrees Celsius, and seconds); and SI prefixes (i.e., micro-, milli-, centi-, and kilo-) when measuring objects, organisms, and/or events.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

**Process Standard 2: Classify**

1. Use observable properties to place an object, organism, and/or event into a classification system (e.g., dichotomous keys).

EPAS Strand and Score Range: *Interpretation of Data: 13-15, 16-19, & 20-23*

2. Identify properties by which a set of objects, organisms, and/or events could be ordered.

EPAS Strand and Score Range: *Interpretation of Data: 13-15, 16-19, & 20-23*

**Process Standard 3: Experiment**

1. Ask questions about the world and design investigations that lead to scientific inquiry.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

2. Evaluate the design of a scientific investigation.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

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3. Identify variables and/or controls in an experimental setup (i.e., tested, experimental, and measured variables).

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

4. Identify a testable hypothesis for an experiment.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

5. Design and conduct experiments.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

6. Recognize potential hazards and practice safety procedures in all science activities.

**Process Standard 4: Interpret and Communicate**

1. Report data in an appropriate method when given an experimental procedure or data.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

2. Interpret data tables, line, bar, trend, and/or circle graphs.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

3. Evaluate data to develop reasonable explanations, and/or predictions.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

4. Accept or reject hypotheses when given results of an investigation.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

5. Communicate scientific procedures and explanations.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

**Process Standard 5: Inquiry**

1. Use systematic observations, make accurate measurements, and identify and control variables.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

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2. Use technology to gather data and analyze results of investigations.

EPAS Strand and Score Range:        *Scientific Investigation: 20-23*

3. Review data, summarize data, and form logical conclusions.

EPAS Strand and Score Range:        *Interpretation of Data: 20-23*

4. Formulate and evaluate explanations proposed by examining and comparing evidence, pointing out statements that go beyond evidence, and suggesting alternative explanations.

EPAS Strand and Score Range:        *Interpretation of Data: 24-27*

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## PHYSICAL SCIENCE

### High School

#### SCIENCE PROCESSES AND INQUIRY

##### Process Standard 1: Observe and Measure

1. Identify qualitative and quantitative changes given conditions (e.g., temperature, mass, volume, time, position, length) before, during, and after an event.

EPAS Strand and Score Range: *Interpretation of Data: 13-15, 16-19, 24-27, & 28-32*

2. Use appropriate tools (e.g., metric ruler, graduated cylinder, thermometer, balances, spring scales, stopwatches) when measuring objects and/or events.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

3. Use appropriate System International (SI) units (i.e., grams, meters, liters, degrees Celsius, and seconds); and SI prefixes (i.e. micro-, milli-, centi-, and kilo-) when measuring objects and/or events.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

##### Process Standard 2: Classify

1. Using observable properties, place an object or event into a classification system.

EPAS Strand and Score Range: *Interpretation of Data: 13-15, 16-19, & 20-23*

2. Identify the properties by which a classification system is based.

EPAS Strand and Score Range: *Interpretation of Data: 13-15, 16-19, & 20-23*

##### Process Standard 3: Experiment

1. Evaluate the design of a physical science investigation.

EPAS Strand and Score Range: *Scientific Investigation: 24-27 & 28-32*

2. Identify the independent variables, dependent variables, and controls in an experiment.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

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3. Use mathematics to show relationships within a given set of observations.

EPAS Strand and Score Range: *Interpretation of Data: 20-23 & 24-27*

4. Identify a hypothesis for a given problem in physical science investigations.

EPAS Strand and Score Range: *Scientific Investigation: 28-32*

5. Recognize potential hazards and practice safety procedures in all physical science activities.

**Process Standard 4: Interpret and Communicate**

1. Select appropriate predictions based on previously observed patterns of evidence.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32, & 33-36*

2. Report data in an appropriate manner.

EPAS Strand and Score Range: *Interpretation of Data: 20-23 & 24-27  
Scientific Investigation: 24-27*

3. Interpret data tables, line, bar, trend, and/or circle graphs.

EPAS Strand and Score Range: *Interpretation of Data: 20-23 & 24-27*

4. Accept or reject hypotheses when given results of a physical science investigation.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32, & 33-36*

5. Evaluate experimental data to draw the most logical conclusion.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32, & 33-36*

6. Prepare a written report describing the sequence, results, and interpretation of a physical science investigation or event.

7. Communicate or defend scientific thinking that resulted in conclusions.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

8. Identify and/or create an appropriate graph or chart from collected data, tables, or written description.

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EPAS Strand and Score Range: *Interpretation of Data: 20-23, 24-27, 28-32, & 33-36*

**Process Standard 5: Model**

1. Interpret a model which explains a given set of observations.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

2. Select predictions based on models.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

3. Compare a given model to the physical world.

EPAS Strand and Score Range: *Interpretation of Data: 24-27*  
*Evaluations of Experiments, Models, and Assertions: 24-27*

**Process Standard 6: Inquiry**

1. Formulate a testable hypothesis and design an appropriate experiment relating to the physical world.

EPAS Strand and Score Range: *Scientific Investigation: 24-27 & 28-32*

2. Design and conduct physical science investigations in which variables are identified and controlled.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

3. Use a variety of technologies, such as hand tools, measuring instruments, and computers to collect, analyze, and display data.

EPAS Strand and Score Range: *Scientific Investigation: 20-23, 24-27, & 28-32*

4. Inquiries should lead to the formulation of explanations or models (physical, conceptual, and mathematical). In answering questions, students should engage in discussions (based on scientific knowledge, the use of logic, and evidence from the investigation) and arguments that encourage the revision of their explanations, leading to further inquiry.

EPAS Strand and Score Range: *Scientific Investigation: 28-32 & 33-36*

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**BIOLOGY I**

**High School**

**SCIENCE PROCESSES AND INQUIRY**

**Process Standard 1: Observe and Measure**

1. Identify qualitative and quantitative changes in cells, organisms, populations, and ecosystems given conditions (e.g., temperature, mass, volume, time, position, length, quantity) before, during, and after an event.

EPAS Strand and Score Range: *Interpretation of Data: 20-23, 24-27, & 28-32*

2. Use appropriate tools (e.g., microscope, pipette, metric ruler, graduated cylinder, thermometer, balances, stopwatches) when measuring cells, organisms, populations, and ecosystems.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

3. Use appropriate System International (SI) units (i.e., grams, meters, liters, degrees Celsius, and seconds); and SI prefixes (i.e., micro-, milli-, centi-, and kilo-) when measuring cells, organisms, populations, and ecosystems.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

**Process Standard 2: Classify**

1. Using observable properties, place cells, organisms, and/or events into a biological classification system.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

2. Identify the properties by which a biological classification system is based.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

**Process Standard 3: Experiment**

1. Evaluate the design of a biology laboratory investigation.

EPAS Strand and Score Range: *Scientific Investigation: 24-27 & 28-32*

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2. Identify the independent variables, dependent variables, and controls in an experiment.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

3. Use mathematics to show relationships within a given set of observations (e.g., population studies, biomass, probability).

EPAS Strand and Score Range: *Interpretation of Data: 20-23 & 24-27*

4. Identify a hypothesis for a given problem in biology investigations.

EPAS Strand and Score Range: *Scientific Investigation: 28-32*

5. Recognize potential hazards and practice safety procedures in all biology activities.

**Process Standard 4: Interpret and Communicate**

1. Select appropriate predictions based on previously observed patterns of evidence.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32, & 33-36*

2. Report data in an appropriate manner.

EPAS Strand and Score Range: *Interpretation of Data: 20-23 & 24-27  
Scientific Investigation: 24-27*

3. Interpret data tables, line, bar, trend, and/or circle graphs.

EPAS Strand and Score Range: *Interpretation of Data: 20-23 & 24-27*

4. Accept or reject hypotheses when given results of a biological investigation.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32, & 33-36*

5. Evaluate experimental data to draw the most logical conclusion.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32 & 33-36*

6. Prepare a written report describing the sequence, results, and interpretation of a biological investigation or event.

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7. Communicate or defend scientific thinking that results in conclusions.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

8. Identify and/or create an appropriate graph or chart from collected data, tables, or written description (e.g., population studies, plant growth, heart rate).

EPAS Strand and Score Range: *Interpretation of Data: 20-23, 24-27, 28-32, & 33-36*

**Process Standard 5: Model**

1. Interpret a biological model which explains a given set of observations.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

2. Select predictions based on models such as pedigrees, life cycles, energy pyramids.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

3. Compare a given model to the living world.

EPAS Strand and Score Range: *Interpretation of Data: 24-27*  
*Evaluations of Experiments, Models, and Assertions: 24-27*

**Process Standard 6: Inquiry**

1. Formulate a testable hypothesis and design an appropriate experiment relating to the living world.

EPAS Strand and Score Range: *Scientific Investigation: 28-32*

2. Design and conduct biological investigations in which variables are identified and controlled.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

3. Use a variety of technologies, such as hand tools, microscopes, measuring instruments, and computers to collect, analyze, and display data.

EPAS Strand and Score Range: *Scientific Investigation: 20-23, 24-27, & 28-32*

4. Inquiries should lead to the formulation of explanations or models (physical, conceptual, and mathematical). In answering questions, students should engage in discussions (based on scientific knowledge, the use of logic, and evidence from the investigation) and arguments that encourage the revision of their explanations, leading to further inquiry.

EPAS Strand and Score Range: *Scientific Investigation: 28-32 & 33-36*

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## CHEMISTRY

### High School

#### SCIENCE PROCESSES AND INQUIRY

##### Process Standard 1: Observe and Measure

1. Identify qualitative changes in reactions and quantitative changes in chemical reactions given conditions (e.g., temperature, mass, volume, time, position, length) before, during, and after an event.

EPAS Strand and Score Range: *Interpretation of Data: 20-23, 24-27, & 28-32*

2. Use appropriate tools (e.g., metric ruler, graduated cylinder, thermometer, balances, spring scales, stopwatches) when measuring objects and/or events.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

3. Use appropriate System International (SI) units (i.e., grams, meters, liters, degrees Celsius, and seconds); and SI prefixes (i.e., micro-, milli-, centi-, and kilo-) when measuring mass volume and temperature.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

##### Process Standard 2: Classify

1. Using observable properties, place an object or event (i.e., chemical versus physical, electrons into charge, electron levels, and reaction types) into a classification system.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

2. Identify properties by which a classification system is based.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

##### Process Standard 3: Experiment

1. Evaluate the design of a chemistry laboratory investigation.

EPAS Strand and Score Range: *Scientific Investigation: 24-27 & 28-32*

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2. Identify the independent variables, dependent variables, and controls in an experiment.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

3. Use mathematics to show relationships within a given set of observations (i.e., conservation of mass and stoichiometry).

EPAS Strand and Score Range: *Interpretation of Data: 20-23 & 24-27*

4. Identify a hypothesis for a given problem in chemistry investigations.

EPAS Strand and Score Range: *Scientific Investigation: 28-32*

5. Recognize potential hazards and practice safety procedures in all chemistry laboratory activities.

**Process Standard 4: Interpret and Communicate**

1. Select appropriate predictions based on previously observed patterns of evidence.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32, & 33-36*

2. Report data in an appropriate manner.

EPAS Strand and Score Range: *Interpretation of Data: 20-23 & 24-27  
Scientific Investigation: 24-27*

3. Interpret data tables, line, bar, trend, and/or circle graphs.

EPAS Strand and Score Range: *Interpretation of Data: 20-23 & 24-27*

4. Accept or reject hypotheses when given results of a chemistry investigation.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32, & 33-36*

5. Evaluate experimental data to draw the most logical conclusion.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32, & 33-36*

6. Prepare a written report describing the sequence, results, and interpretation of a chemistry investigation or event.

7. Communicate or defend scientific thinking that resulted in conclusions.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*  
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8. Identify and/or create an appropriate graph or chart from collected data, tables, or written description.

EPAS Strand and Score Range: *Interpretation of Data: 20-23, 24-27, 28-32, & 33-36*

**Process Standard 5: Model**

1. Interpret an atomic model which explains a given set of observations.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

2. Select predictions based on models such as electron configuration, bonding, and compound formation.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

3. Compare a given model to the physical world.

EPAS Strand and Score Range: *Interpretation of Data: 33-36*  
*Evaluations of Experiments, Models, and Assertions: 24-27*

**Process Standard 6: Inquiry**

1. Formulate a testable hypothesis and design an appropriate experiment to identify an unknown substance.

EPAS Strand and Score Range: *Scientific Investigation: 28-32*

2. Design and conduct scientific investigations in which variables are identified and controlled.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

3. Use a variety of technologies, such as hand tools, balances, conductivity apparatus, thermometers, graduated cylinders, volumetric flasks, and computers to collect, analyze, and display data.

EPAS Strand and Score Range: *Scientific Investigation: 20-23, 24-27, 28-32, & 33-36*

4. Inquiries should lead to the formulation of explanations or models (physical, conceptual, and mathematical). In answering questions, students should engage in discussions (based on scientific knowledge, the use of logic, and evidence from the investigation) and arguments that encourage the revision of their explanations, leading to further inquiry.

EPAS Strand and Score Range: *Scientific Investigation: 28-32 & 33-36*

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## PHYSICS

### High School

#### SCIENCE PROCESSES AND INQUIRY

##### Process Standard 1: Observe and Measure

1. Identify qualitative and quantitative changes given conditions (e.g., temperature, mass, volume, time, position, length) before, during, and after an event.

EPAS Strand and Score Range: *Interpretation of Data: 20-23, 24-27, & 28-32*

2. Use appropriate tools (e.g., metric ruler, graduated cylinder, thermometer, balances, spring scales, stopwatches) when measuring objects and/or events.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

3. Use appropriate System International (SI) units (i.e., grams, meters, liters, degrees Celsius, and seconds); and SI prefixes (i.e., micro-, milli-, centi-, and kilo-) when measuring objects and/or events.

EPAS Strand and Score Range: *Scientific Investigation: 20-23*

##### Process Standard 2: Classify

1. Using observable properties, place an object or event into a classification system.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

2. Identify the properties by which a classification system is based.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

3. Graphically classify physical relationships (e.g., linear, parabolic, inverse)

EPAS Strand and Score Range: *Interpretation of Data: 24-27 & 28-32*

##### Process Standard 3: Experiment

1. Evaluate the design of a physics investigation.

EPAS Strand and Score Range: *Scientific Investigation: 24-27 & 28-32*

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2. Identify the independent variables, dependent variables, and controls in an experiment.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

3. Use mathematics to show relationships within a given set of observations.

EPAS Strand and Score Range: *Interpretation of Data: 20-23 & 24-27*

4. Identify a hypothesis for a given problem in physics investigations.

EPAS Strand and Score Range: *Scientific Investigation: 28-32*

5. Recognize potential hazards and practice safety procedures in all physics activities.

**Process Standard 4: Interpret and Communicate**

1. Select appropriate predictions based on previously observed patterns of evidence.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32, & 33-36*

2. Report data in an appropriate manner.

EPAS Strand and Score Range: *Interpretation of Data: 20-23 & 24-27  
Scientific Investigation: 24-27*

3. Interpret data tables, line, bar, trend, and/or circle graphs.

EPAS Strand and Score Range: *Interpretation of Data: 20-23*

4. Accept or reject hypotheses when given results of a physics investigation.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32, & 33-36*

5. Evaluate experimental data to draw the most logical conclusion.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27, 28-32, & 33-36*

6. Prepare a written report describing the sequence, results, and interpretation of a physics investigation or event.

7. Communicate or defend scientific thinking that resulted in conclusions.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*  
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8. Identify and/or create an appropriate graph or chart from collected data, tables, or written description.

EPAS Strand and Score Range: *Interpretation of Data: 20-23, 24-27, 28-32, & 33-36*

**Process Standard 5: Model**

1. Interpret a model which explains a given set of observations.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

2. Select predictions based on models.

EPAS Strand and Score Range: *Evaluations of Experiments, Models, and Assertions: 24-27*

3. Compare a given model to the physical world.

EPAS Strand and Score Range: *Interpretation of Data: 33-36  
Evaluations of Experiments, Models, and Assertions: 24-27*

**Process Standard 6: Inquiry**

1. Formulate a testable hypothesis and design an appropriate experiment relating to the physical world.

EPAS Strand and Score Range: *Scientific Investigation: 28-32*

2. Design and conduct physics investigations in which variables are identified and controlled.

EPAS Strand and Score Range: *Scientific Investigation: 24-27*

3. Use a variety of technologies, such as hand tools, measuring instruments, and computers to collect, analyze, and display data.

EPAS Strand and Score Range: *Scientific Investigation: 20-23, 24-27, 28-32, & 33-36*

4. Inquiries should lead to the formulation of explanations or models (physical, conceptual, and mathematical). In answering questions, students should engage in discussions (based on scientific knowledge, the use of logic, and evidence from the investigation) and arguments that encourage the revision of their explanations, leading to further inquiry.

EPAS Strand and Score Range: *Scientific Investigation: 28-32 & 33-36*

*Only the PASS **Science Process and Inquiry Skills** are shown here. For a complete version of PASS Science, please go to <http://www.sde.state.ok.us>*