

## EPAS Science Reasoning Standards for Transition Found in PASS Science Courses

Strand	Score Range 13–15	Score Range 16–19	Score Range 20–23	Score Range 24–27	Score Range 28–32	Score Range 33–36
<b>Interpretation of Data</b>	<p>Select a single piece of textual (nonnumerical) information from a table</p> <p>Select the highest/lowest value from a specified column or row in a table</p> <p>Select a single data point from a simple table, graph, or diagram*</p> <p><b>Grade 7, 8</b> <b>Physical Science</b></p>	<p>Select data from a simple table, graph, or diagram (e.g., a table or graph with 2 or 3 variables; a food web)*</p> <p>Identify basic features from a table or graph (e.g., headings, units of measurement, axis labels)*</p> <p>Understand basic scientific terminology*</p> <p>Find basic information in a brief body of text*</p> <p>Identify a direct relationship between variables in a simple table, graph, or diagram</p> <p><b>Grade 7, 8</b> <b>Physical Science</b></p>	<p>Compare data from a simple table, graph, or diagram</p> <p>Determine whether a relationship exists between 2 variables</p> <p>Identify an inverse relationship between variables in a simple table, graph, or diagram</p> <p>Translate information (data or text) into graphic form</p> <p>Select data from a complex table, graph, or diagram (e.g., a table or graph with more than 3 variables; a topographic map)</p> <p><b>Grade 7, 8</b> <b>Physical Science</b> <b>Biology I</b> <b>Chemistry</b> <b>Physics</b></p>	<p>Compare data from a complex table, graph, or diagram</p> <p>Interpolate between data points in a table or graph</p> <p>Identify or use a simple mathematical relationship that exists between data</p> <p>Identify a direct or inverse relationship between variables in a complex table, graph, or diagram</p> <p>Compare or combine data from two simple data sets</p> <p>Combine new, simple information (data or text) with given information (data or text)</p> <p><b>Grade 7, 8</b> <b>Physical Science</b> <b>Biology I</b> <b>Chemistry</b> <b>Physics</b></p>	<p>Identify or use a complex mathematical relationship that exists between data</p> <p>Extrapolate from data points in a table or graph</p> <p>Compare or combine given text with data from tables, graphs, or diagrams</p> <p><b>Physical Science</b> <b>Biology I</b> <b>Chemistry</b> <b>Physics</b></p>	<p>Compare or combine data from two complex data sets</p> <p>Combine new, complex information (data or text) with given information (data or text)</p> <p><b>Physical Science</b> <b>Biology I</b> <b>Chemistry</b> <b>Physics</b></p>

\* Not matched to any specific Science Processes and Inquiry PASS Objectives

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<b>Scientific Investigation</b>			Understand simple lab procedures Identify the control in an experiment  <i>Grade 7, 8</i> <i>Physical Science</i>  <i>Biology I</i>  <i>Chemistry</i>  <i>Physics</i>	Understand moderately complex lab procedures Understand simple experimental designs  <i>Grade 7, 8</i>  <i>Physical Science</i>  <i>Biology I</i>  <i>Chemistry</i>  <i>Physics</i>	Understand complex lab procedures Determine the hypothesis for an experiment Understand moderately complex experimental designs Identify an alternate method for testing a hypothesis  <i>Physical Science</i>  <i>Biology I</i>  <i>Chemistry</i>  <i>Physics</i>	Understand precision and accuracy issues Predict how modifying an experiment or study (adding a new trial or changing a variable) will affect results Identify new information that could be collected from a new experiment or by modifying an existing experiment  <i>Physical Science</i>  <i>Biology I</i>  <i>Chemistry</i>  <i>Physics</i>
<b>Evaluation of Experiments, Models, and Assertions</b>				Select a simple hypothesis, prediction, or conclusion that is supported by one or more data sets or viewpoints Identify strengths and weaknesses in one or more viewpoints  Identify similarities and differences in two or more	Select a complex hypothesis, prediction, or conclusion that is supported by a data set or viewpoint Select a set of data or a viewpoint that supports or contradicts a hypothesis, prediction, or conclusion  Predict the most	Select a complex hypothesis, prediction, or conclusion that is supported by two or more data sets or viewpoints Determine why given information (data or text) supports or contradicts a hypothesis or conclusion  <i>Physical Science</i>  <i>Biology I</i>

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				<p>viewpoints</p> <p>Identify key issues or assumptions in an argument or viewpoint</p> <p>Determine whether new information supports or weakens a viewpoint or hypothesis</p> <p><i>Grade 7, 8</i></p> <p><i>Physical Science</i></p> <p><i>Biology I</i></p> <p><i>Chemistry</i></p> <p><i>Physics</i></p>	<p>likely or least likely result based on a given viewpoint</p> <p><i>Physical Science</i></p> <p><i>Biology I</i></p> <p><i>Chemistry</i></p> <p><i>Physics</i></p>	<p><i>Chemistry</i></p> <p><i>Physics</i></p>
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