

Official Scientific Inquiry Scoring Guide Grade 3

Progress Report Score	ODE WS Score	Forming a Question or Hypothesis (Teacher-directed*) <i>Forms a question or hypothesis, which can be explored through a simple scientific investigation.</i>	Designing an Investigation (Student-directed with teacher support**) <i>Plan an investigation based on a question or hypothesis.</i>
4	5/6 Exceeds	<ul style="list-style-type: none"> ▪ Links background information to the question or hypothesis. ▪ Forms a testable question or hypothesis that can be used to guide a complete and detailed design of a scientific investigation. ▪ Communicates the question or hypothesis clearly, with details. 	<ul style="list-style-type: none"> ▪ Presents a plan for a simple scientific investigation that is complete, in an efficient and logical sequence, and clearly addresses the question or hypothesis. ▪ Communicates logical procedures that imply a connection to student's scientific knowledge.
3	4 Meets	<ul style="list-style-type: none"> ▪ Forms a testable question or hypothesis that can be used to guide the design of a simple scientific investigation. ▪ Communicates a complete question or hypothesis understandably. 	<ul style="list-style-type: none"> ▪ Presents a practical plan for a simple scientific investigation that addresses the question or hypothesis. ▪ Communicates a plan that may lack some details.
2	3 Nearly Meets	<ul style="list-style-type: none"> ▪ Forms a question or hypothesis that is of limited use in guiding the design of a simple scientific investigation. ▪ Communicates an incomplete question or hypothesis. 	<ul style="list-style-type: none"> ▪ Presents a plan somewhat related to the topic that may not fully address the question or hypothesis. ▪ Communicates an incomplete plan.
1/NP	1/2 Does Not Meet	<ul style="list-style-type: none"> ▪ Forms a question or hypothesis that cannot be explored through a simple investigation. ▪ Communicates a question or hypothesis that is not understandable. 	<ul style="list-style-type: none"> ▪ Presents a plan that is impractical or does not relate to the question or hypothesis. ▪ Communicates a plan that cannot be followed or the plan is missing.

* Teachers assist students in Forming a Question or Hypothesis for their investigations.

**Teacher guidance in safety and ethics is acceptable and encouraged. A hypothesis may be stated as a claim.

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Progress Report Score	ODE WS Score	Collecting and Presenting Data (Student-directed with teacher support^{***}) <i>Collect data from an investigation, using measuring tools appropriate to the investigation</i>	Analyzing and Interpreting Results (Student-directed) <i>Use the data collected from an investigation to explain the results and draw conclusions.</i>
4	5/6 Exceeds	<ul style="list-style-type: none"> ▪ Records accurate and complete data and/or observations consistent with the plan. ▪ Accurately matches all measuring tools and units of measure to their uses. ▪ Designs a data table (or other format) using teacher suggestions. 	<ul style="list-style-type: none"> ▪ Uses accurate results to explicitly address the question or hypothesis. ▪ Explanation of results and conclusions are clearly linked to the data collected. ▪ Presents more than one conclusion or a single conclusion that is both elaborated and detailed.
3	4 Meets	<ul style="list-style-type: none"> ▪ Records reasonable data and observations generally consistent with the plan. ▪ Matches relevant measuring tools and units of measure to their uses (if needed). ▪ Uses a teacher provided data table. 	<ul style="list-style-type: none"> ▪ Uses the data collected to explain the results. ▪ Presents at least one conclusion related to data collected.
2	3 Nearly Meets	<ul style="list-style-type: none"> ▪ Records insufficient data and/or records observations inconsistent with the plan. ▪ Incorrectly matches measuring tools and units of measure to their uses. ▪ Uses a teacher provided data table but the data is incomplete or incorrect. 	<ul style="list-style-type: none"> ▪ Communicates results incompletely or with only partial accuracy. ▪ Conclusion cannot be supported by the data.
1/NP	1/2 Does Not Meet	<ul style="list-style-type: none"> ▪ Does not record data, or observations are unrelated to the plan. ▪ Measuring tools and units of measure were not used, but were required for the investigation. ▪ Does not use a data table. 	<ul style="list-style-type: none"> ▪ No results or conclusions are communicated or the results are completely inaccurate.

^{***}Teacher provides a data table for students to use or students may create their own data display.

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Progress Report Score	ODE WS Score	Definition of Grade 3 Score Levels
4	EXCEEDS = 5/6	The student has enhanced her/his work, making it more complex and detailed. The student not only demonstrates understanding of the concepts, but also has produced work that is above and beyond the “meets” level.
3	MEETS = 4	The student’s work shows more strengths than weaknesses. The student clearly demonstrates understanding of the work completed.
2	NEARLY MEETS = 3	The student’s work shows some development. While the student shows some conceptual understanding, additional instruction and practice are needed to earn a “meets” level.
1/NP	DOES NOT MEET = 1/2	The student’s work shows inaccuracies, is incomplete, and generally is not clear.