Elementary Division

CRITERIA	Beginning Level (1)	Fair (2)	Good (3)	Excellent (4)
<u>Creativity of Design:</u> • Originality of all elements: the question(s), approach and use of equipment	Project is not innovative and is very conventional in all elements; needs improvement in originality	Project is somewhat innovative and unconventional in some project elements	Project is mostly innovative and unconventional in most project elements.	Project is very innovative and unconventional in almost all project elements
<u>Creativity of Interpretation:</u> • Originality of data analysis	None of the data analysis is innovative or original	Some of the data analysis is innovative and original	Most of the data analysis is innovative and original	Almost all data analysis is innovative and very original
<u>Scientific Method:</u> • Clarity of question(s) • Clarity of hypothesis • Clarity of procedures	The question(s), hypothesis, and procedure are not explicitly stated and are unclear	Some of the elements (question(s), hypothesis, and procedure) are explicitly stated and somewhat clear	Most, but not all, of the elements (question(s), hypothesis, and procedure) are explicitly stated and clear	The question(s), hypothesis, and procedure are all explicitly stated and very clear
<u>Interpretation of Data:</u> • Conclusions based on collected data • Correlation of data to answering the question(s)	Conclusions are not explicitly stated; a better connection between data and question(s) is needed	Some of the conclusions are explicitly stated; somewhat connected to the question(s)	Most of the conclusions are explicitly stated and connected to the question(s)	All conclusions are explicitly stated and connected to answering the question(s)
<u>Completeness:</u> • Question(s) answered • Thorough description • Results from related research	Limitations of answer not addressed; no clear description or connection to research data	Question not fully answered; somewhat thorough description but very limited documentation	Answer is restricted to some conditions; mostly supported and connected to some collected data.	Answer covers a range of conditions that are thoroughly described, supported and connected to the collected data
<u>Display and Oral Presentation:</u> • Clear and concise oral interview • Effective visual display of project details	Presentation confusing or unclear Graphics ineffective in support of conclusions	Presentation marginally clear when prompted; graphics are very general and lack details	Presentation mostly clear; student mostly answers judge questions but could improve; graphics are somewhat limited	Presentation very clear; student effectively answers judge questions; graphics are detailed and comprehensive
<u>Independence:</u> • Balance between student's use of own skills and reliance on adult participation.	Student appears to totally rely on adult input for all aspects of project; does not fully understand project concepts	Student appears to rely on adult's input in conceiving ideas, answering questions; is uncertain on projects concepts	Student appears to rely on adult mostly to refine question and answer; student understands most project concepts	Student appears to have conceived and completed project independently and fully understands projects concepts