

Outcomes covered by a Science Fair Project

GRADE 9

208-1-rephrase questions in a testable form and clearly define the practical problem

208-2 – identify questions to investigate arising from practical problems issues

208-4- purpose alternative solutions to a given practical problem, select one and develop a plan

209-2-estimate measurements

209-3 – use instruments effectively and accurately for collecting data

209-4 – organize data, using a format that is appropriate to the task or experiment

209-5- select and integrate information from various print and electronic sources or from several parts of the same source

210-2-compile and display data , by hand or computer, in a variety of formats, including diagrams, flow charts, tables, bar graphs, line graphs and scatter plots

210-3- identify strengths and weaknesses of different methods of collecting and displaying data

210-6 – interpret patterns and trends in data, and infer and explain relationships among the variables

210-7-identify, and suggest explanations for , discrepancies in data

210-8-apply given criteria for evaluating evidence and sources of information

210-10-identify potential sources and determine the amount of error in measurement

210-11-state a conclusion , based on experimental data, and explain how evidence gathered supports or refutes an initial idea

210-16-identify new questions and problems that arise from what was learned

211-2 – communicate questions , ideas, intentions, plans and results, using lists, notes in point form, sentences, data tables, graphs, drawings, oral language and other means

211-3-work co-operatively with team members to develop and carry out a plan and troubleshoot problems as they arise

425 – show a continuing curiosity and interest in a broad scope of science-related fields and topics

426 – confidently pursue further investigations and readings

427 – consider many career possibilities in science and technology related fields

428 – consider observations from a variety of sources during investigations and before drawing conclusions

430 – persist in seeking answers to difficult questions and solutions to difficult problems

431 – work collaboratively in carrying out investigations as well as generating and evaluating ideas

434 – show concern for safety in planning, carrying out , and reviewing activities