

Outcomes covered by a Science Fair Project

GRADE 7

109-1 – describe the role of collecting evidence, finding relationships, and proposing explanations in the development of scientific knowledge

109-7- identify different approaches taken to answer questions, solve problems and make decisions

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

208-3 – define and delimit questions and problems to facilitate investigation

208-5 – state a prediction and a hypothesis based on background information a\or an observed pattern of events

208-6-design and experiment and identify major variables

208-9- select appropriate methods and tools for collecting data and solving problems

209-1 – carry our procedures controlling the major variables

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

209-6 – use tools and apparatus safely

210-2-complie 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

210-10-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

210-12 - identify and evaluate potential applications of findings

210-13- test the design of a constructed device or system

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

211-4- evaluate individual and group processes used in planning, problem solving, decision making and completing a task.

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