Developing Researcher REACTionS

Research is integral to inquiry – mainly in, but not limited to, the Investigate stage of the inquiry process – and aims at "generating evidence for [answering] the chosen/ given question through empirical investigations of various kinds and/ or from consulting relevant [and reliable] sources" (Wells, 2001, Learning & Teaching Through Inquiry, p. 191). By definition, then, all research is thoughtful, but only thoughtful research tasks actually develop researchers.

Level	Research Skill Level	Researcher REACTionS	Provoking Researcher REACTionS
1 Year 4+ (Grade 3+)	Finding simple facts	Recalling Recalling and reporting the main facts discovered Making no attempt to analyse the information or reorganize it for comparison purposes	arrange; cluster; define; find; identify; label; list; locate; match; name; recall; recount; repeat; reproduce; select; sort; state
2 Year 5+ (Grade 4+)	Asking / Searching • Finding answers to questions	 Explaining Recalling and restating, summarizing, or paraphrasing information Finding example, explaining events or actions Understanding the information well enough to be able to put it in a new context 	apply; cite; complete; convert; demonstrate; describe; document; dramatize; emulate; estimate; expand; explain; expound; express; generalize; give example; illustrate; imagine; paraphrase; portray; prepare; present; produce; propose; restate; review; search; show; solve; speculate; summarize; support; survey; translate; use
3 Year 6+ (Grade 5+)	Examining / Organising • Reorganising information	Analysing Breaking a subject into its component parts (causes, effects, problems, solutions) Comparing one part with another	analyse; apply; arrange; associate; break down; categorize; change; characterize; classify; compare; compile; construct; contrast; correlate; diagram; differentiate; discover; discriminate; dissect; distinguish; divide; examine; experiment; extend; group; infer; interpret; manipulate; map; modify; organize; outline; plan; question; reconstruct; relate; represent; revise; rewrite; scrutinize; select; separate; sequence; sift; simplify; solve; transplant; uncover; utilize; verify
4 Year 8+ (Grade 7+)	Evaluating / Deliberating Evaluating information and conclusions	 Challenging Making critical judgments about subject based on internal or external standards (Standards may be student's own, or teacher or class may decide criteria. "I didn't like it" or "I don't believe it" are not enough) 	appraise; argue; assess; compare; criticize; debate; defend; determine; discriminate; evaluate; grade; investigate; judge; justify; modify; prioritize; rank; rate, refute; review; support; value; weigh
5 Year 11+ (Grade 10+)	Integrating / Concluding • Drawing conclusions	Transforming • Bringing together more than one piece of information, forming own conclusion, and presenting that conclusion in a creative new format	blend; build; combine; compile; compose; conclude; construct; convince; create; decide; design; develop; dramatize; elaborate; express; forecast; formulate; generate; imagine; modify; persuade; plan; predict; pretend; produce; propose; revise; speculate; structure
6 Year 13+ (Grade 12+)	Conceptualising	Synthesising Creating an entirely original product based on a new concept or theory	build a model program; create; design; develop; devise; generate; hypothesize; invent; propose; theorize

• Li	Select 5-10 accomplishments of the person you have researched. Produce a "Hall of Fame" (or "Hall of Shame") poster. List five "Do's and Don'ts" about a social issue that you have researched. Find facts about your subject for each category determined by the class. Contribute your facts to the "Fact File" on your class's web page.			
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	• Find facts about your subject for each category determined by the class. Contribute your facts to the "Fact File" on your class's web page.			
• S	• Select appropriate pictures from discarded magazines or find appropriate pictures online to produce a collage or picture essay that portrays your researched subject.			
• B	• Based on your research, state five questions a television reporter might ask if he/she were preparing a feature news story on your subject. Answer the questions.			
	Define key words about your research subject. Embed hot links in your Web page to your definitions in a class glossary page.			
2 • V	Write and present a BBC News report about a particular event or person you researched.			
• K	• Keep a journal in which you present your reactions, thoughts, and feelings about your research.			
• S	• Show the events of your research on a map and explain the importance of each event.			
• c	• Complete each of the following statements: My research made me wish that; realize that; decide that; wonder about; see that; believe that; feel that; hope that			
• C	Cut out newspaper or magazine ads that would have interested an historical figure you have researched. Explain their importance to the historical figure.			
• P	Prepare a job application or resume for a person you have researched.			
3 • C	Create a timeline for the events which led up to the situation you researched. Correlate social, political, religious, educational, technological events.			
• T	Fransplant an event or famous person from one time period, country, or ecological system to another time or place. Explain the changes that would occur.			
• C	Compare your lifestyle and neighbourhood to those of people living in the time you have researched.			
• V	Write a letter to the editor scrutinizing a local issue. Support your opinions with specific details from your research.			
• V	Write a recipe for an historical event by researching, analysing to pick out the main ingredients, and sequencing them in order with mixing instructions.			
• 0	Organize and create a travel brochure to attract visitors to the place or time period you have researched. Include all essential information plus fascinating details.			
• U	Use a graphic organizer to outline the main ideas of your subject visually, showing relationships between ideas and supporting points.			
4 • A	Act as an attorney and argue to punish or acquit an historical character or a country for a crime or misdeed.			
• D	Defend your judgment that a research subject (if it is an invention, machine, or some other item or document) should be placed in a time capsule to be dug up in 100 years.			
• D	Debate the issues of a controversial research topic with a classmate who researched the same topic.			
• E	Evaluate the information available in print and electronic format on your topic, based on clear evaluation criteria. Compile an annotated bibliography of valuable sources.			
• Ir	nvestigate a societal problem. Write a report card that justifies a grade for each proposed or attempted solution (e.g., cost, feasibility, probable success, ease of implementation).			
• U	Jsing a job evaluation form, rate a public person's performance of his/her job based on your research. Justify your ratings.			
• C	Create an editorial cartoon about your researched subject that makes clear your judgment about the subject.			
5 • D	Design and produce a television commercial or a whole advertising campaign that presents your research results to the class.			
• V	Write a poem or short story that expresses your new knowledge or insight.			
• D	Dramatize a famous historical event. The dramatization should make clear your interpretation of the event.			
• C	Compose a speech that an historical person might deliver about a present-day national issue OR a speech that a current public person might deliver about an historical issue.			
• P	Predict what your researched person would take on a trip. Design the itinerary. Pack that person's suitcase and present each item to the class with an explanation of significance.			
• R	Research a specific event, person, or aspect of the culture of an historical or modern era. Write and produce a segment for a morning news show on your topic.			
• C	Create a board game that incorporates the major conclusions you reached about your researched subject.			
1	Develop a model program to address a social problem that you have researched.			
• C	Create a new country and hypothesize about the change in the balance of power in the world.			
	Design a new building, machine, process, or experiment based on theories developed from your research.			
• D	Develop proposed legislation to address national, state, or local issues.			
	Develop a community project that addresses an issue of local concern.			
• D	Design and carry out a science project that builds on the previous knowledge that you have discovered through research and tests a new concept or theory.			