

## Research Paper

Researching and expressing other's points of view on a topic, as well as incorporating your insights and ideas

Long in length, at least 8 pages

Requires comprehensive understanding of a topic by researching it thoroughly

Familiarity required with research writings associated with a chosen topic

Helps build writers knowledge of a topic

The writer compares various pieces of information on a topic and then presents a cumulative overview of the findings

Different flavors of Research Papers Include but are not limited to: compare and contrast, argumentative, analytical, cause and effect, and subject-bases. The last is the most common. A subject or topic is chosen and then that topic is researched and written about.

After researching a topic thoroughly, the writer compiles and evaluates the information. The writer then restructures and presents the topic from their point of view, incorporating citations from compiled research to back up their analysis.

## Essay

Usually your point of view

Short in length with an average of 5 paragraphs

Does not necessarily require a comprehensive understanding of a particular topic

Familiarity may or may not be required with other research or writing

Helps build writers writing skills

The writer hones their writing skills by presenting their thoughts in a logical and coherent manner

Different flavors of Essays include but are not limited to: academic, narrative, and philosophical. The academic essay is common at the collegiate level. This type of essay commonly includes a literature review. The literature review is an evaluation of information that is read. It should describe, summarize, evaluate and clarify the chosen piece.

In an essay the writer puts their thoughts on paper. Thought is given to the purpose of the writing and what type of essay it is. The perspective audience is also considered. The writing should be well-organized, coherent and supported by appropriate facts and examples.

# Personal Essay Vs Research Paper

**Mark Peters PhD**



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web  $m \times c \times \Delta t$  equation 1 where  $m$  is the total mass of the solution solute plus solvent  $c$  is the specific heat of the solution  
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web the heat of reaction  $\Delta H_{\text{soln}}$  is written after the products in units of  $\text{kJ mol rxn}$  for example sodium hydroxide dissolves  
exothermically releasing 44.2 kilojoules per mole dissolved this process is represented as  $\text{NaOH (s)} \rightarrow \text{NaOH (aq)}$   $\Delta H_{\text{soln}} = -44.2 \text{ kJ mol rxn}$   
write equations to similarly represent the dissolving process for

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web hand warmers are usually placed inside the gloves to keep your hands warm the heat keeping your hands warm is  
formed as a result of an exothermic reaction which occurs in a small packet hand warmers have 5 main ingredients in them

salt carbon polypropylene vermiculite water and iron

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web the goal of my experiment and research is to evaluate the various number of compounds to be used as hand warmers and locate the ones that can raise the temperature to 20 degrees celsius in 100 g water and costs as little as possible

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web in this lab you are challenged to use chemistry to determine which ionic compound makes the best hand warmer in this experiment you will collect data that will allow you to calculate the heat of solution  $\Delta H_{\text{soln}}$  or the amount of energy released or absorbed in kJ/mol of the substance being dissolved

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web lab investigation in today s experiment you will design and execute an experimental procedure to determine which of three ionic compounds is most suitable for use in a hand warmer the three compounds you will use is determined by the group number you are assigned the ideal hand warmer