The study contributes no evidence to the discussion regarding whether or not IBL is an effective approach for teaching scientific concepts. However, it might be considered to be an effective tool for teaching concepts connected with the scientific process, especially the logic of research work.

References


**Appendix 1. Example of the test for the 4th-5th grades**

How does such a ‘scientific inquiry’ work? You can find an excerpt from the diary of a young researcher, Hugo, who studies frogs. Unfortunately, by mistake it happened that Hugo cut his diary into small pieces during break time. Would you help him to reassemble it again? Your task is to put the steps of his research into the correct order. You should write a number by each of the steps from 2 to 8 (Notice that we have already filled in number 1 for the step when Hugo started his research for you. So you should start with number 2 for the next step, 3 for the next one up to 8 for the last one.)

**Example**

_1_____ Hugo comes to his office and reads an article written by his friend about frogs.

_______ Hugo decides if brown frogs really jump more as he originally supposed.

_______ Hugo is writing a paper for Th e Kwak and Splash Journal about his research.

_______ Hugo is planning some research where he is going to observe frogs.