

Inquiry-Based and Research-Based Learning

- [Prijava](#) ali [Registracija](#) za objavo komentarjev

Vrsta metode

Teaching-learning methods

Vrsta metod poučevanja in učenja

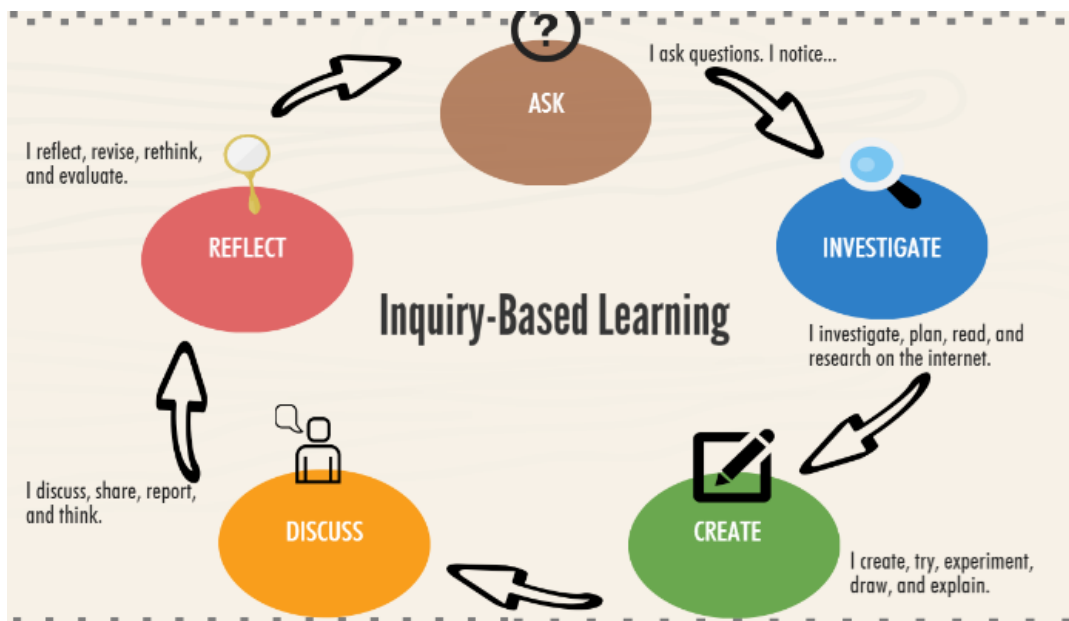
Osredotočena na študente

Kratek povzetek

Learning/teaching method based on student activity, inquiry and research

Opis

Discovery-based, inquiry-based learning is a learner-centred approach to solving real-life problems with the active participation of learners. With the help of teachers, students work with their peers to experiment, investigate, model processes and actively and creatively address issues in the subject area.



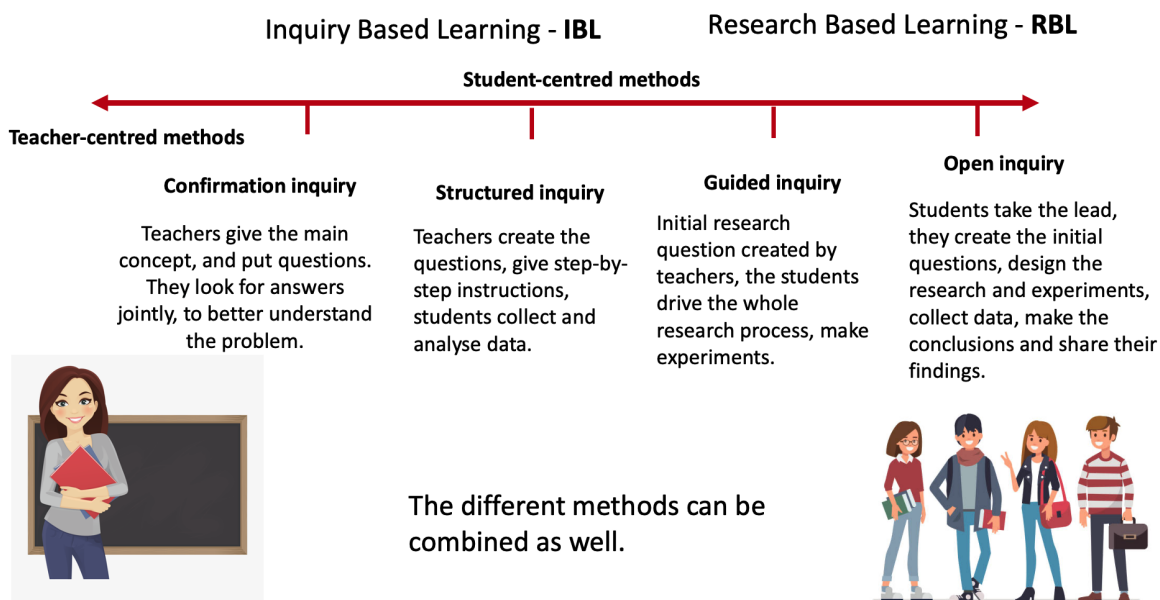
Source: <https://www.tes.com/>

The method is referred to by two different names in the literature, depending on the extent to which the teacher is involved in the preparation and implementation of the research and the autonomy with which the students can work:

Inquiry Based Learning (IBL)

Research Based Learning (RBL)

Both approaches are learner-centred, with the active participation of the learners, but while in inquiry learning the teacher asks the initiating questions, he/she guides the experiments (discovery) and the drawing of conclusions, in research-based learning the students are given more autonomy, independency and the learning process are closer to the steps of scientific research (problem definition, initial questions, formulating hypotheses, conducting experiments, carrying out investigations, collecting and analysing data, drawing conclusions).



The phases of the work are the same in each solution, the difference is in the role of the teachers and the level of autonomy of the students.

Izzivi in pasti metode ter načini, kako se z njimi spopasti

The use of these methods always requires considerable preparation from the teacher, regardless of which end of the previous diagram, exploratory or complex inquiry-based, is closer. He or she must plan the task very precisely and develop precise criteria for evaluation.

The other issue, and difficulty, is the integration of time-consuming research into the curriculum. The essence of research activities is flexibility and dynamism, which is difficult to reconcile with a fixed curriculum.

One of the key challenges is to base the exploratory or research-based work on a real-life problem that excites students. With a textbook-flavoured, unchallenging, pre-solved problem, the motivation to explore and research is dramatically reduced.

Lastly, most research requires an interdisciplinary approach, which means that research activities are most effective when carried out in collaboration with teachers of different subjects, which can also cause organisational difficulties.

Despite the fact that the method itself goes back thousands of years (since Socrates himself used questions to help his students understand the "subject matter"), its application is still an innovation compared to traditional knowledge transferring teaching. And, like all innovations, it bears the difficulties of leaving the "beaten track", although it offers real pedagogical success for both the learner and the teacher.

Praktični nasveti za uporabo

Discovery and inquiry-based learning is a broad concept, encompassing several learning methods, which are characterised by the following common elements:

- exploring real questions, problems, along initial, problem-oriented questions,
- developing higher-order thinking skills and metacognitive skills,
- working with peers, self-organisation, division of roles, groupwork to find solutions to complex problems.

IBL and RBL are active learning methods, the first step of which is to arouse the curiosity of the learners. In the background is the age-old experience: the pupils are interested in everything, always asking questions. The innovative teacher is able to awaken this "wanting to know" through the inquiry-based method.

In case of research that requires more autonomy, one of the biggest challenges will be the organisation of the group, the appointment of leaders and group dynamics. Some students have no experience of goal-oriented self-organisation and democratic teamwork.

Povratne informacije s strani učiteljev in učencev

“Another key element of inquiry-based learning is questioning. In a language lesson, the language teacher may not get the right answer from the students. One possible reason for this is that the questions are not tailored to the

- It promotes a better understanding of the subject matter, critical thinking and gives students the opportunity for self-reflection;
- Cooperation improves their social and communication skills.
- The teacher can better assess the level of knowledge and skills of students, and recognise their typical errors.