

Science education for gifted learners

Routledge - Meeting the needs of gifted and talented students

Our research has shown that the current situation in education of gifted students is unsatisfactory. School environment is the main factor in the realization of this motivation and the development of giftedness.

Then we discovered specific motivational needs of gifted students (Tirova, E. & Trnka, J., 2012). We used (2011) a questionnaire with a representative sample of 138 non-gifted and 15 students gifted in science of an upper secondary school in the Czech Republic (aged 15-18). We are presenting a part of the questionnaire results (Table 1):

Table 1
Specific science educational needs of students.

Which activities would you like to do in classes, which activities interest and attract you?	Gifted students N=15 (%)	Non-gifted students N=138 (%)	Difference gifted/non-gifted (%)
Measurement	93	25	68
Analyzing of phenomena	87	29	58
Verification of hypotheses	67	16	51
Identifying processes in the nature	93	43	50
Observation	93	49	44
Creating of hypotheses	60	16	42
Experimentation	100	39	41
Formulating conclusions	73	33	40
Substantiation of relations	80	41	39
Data processing	67	28	39
Evaluation	53	17	36
Describing of phenomena	73	41	32
Expounding and substantiating of opinions	87	59	28
Solving of projects	80	62	18

Questionnaire research and design-based research produce new findings that may be applied in the development of innovative motivational teaching methods.

Most of the identified educational needs of gifted students are met in IBSE that we focused on when analyzing the development of motivational teaching / learning methods. How important it is to create suitable conditions for the development of giftedness and to motivate students is evident from the data presented by experts at giftedness. They argue that there are two to three percent of the exceptionally gifted. However, if conditions necessary for the development of students' individual abilities were optimal, up to 25% of them could significantly excel in some areas (Fremont, 2001). It is therefore necessary to

Description: -

-
Tunneling -- Germany.
Tunneling
Europe, Eastern -- Intellectual life -- 1989-
Europe, Eastern -- Politics and government -- 1989-
Post-communism -- Europe, Eastern
Dissenters -- Europe, Eastern
Rhetoric -- Europe, Eastern
McClellan, George Brinton, -- 1826-1885
Gifted children -- Education
Gifted children -- Identification
Science -- Study and teaching
Science education for gifted learners
-Science education for gifted learners
Notes: Includes bibliographical references and index.
This edition was published in 2007



Filesize: 6.78 MB

Tags: #National #Standards #in #Gifted #and #Talented #Education

Online Learning for Gifted Students

Topics covered include: what do we mean by gifted and able children? I have been involved in.

Meeting the needs of gifted and talented students

It may take more time in the planning stage, but it is ultimately more efficient because bored students aren't acting out or zoning out in class—they've got challenging work to do—and struggling students are getting support. And rather than just getting good students to enter competitions, what we did was, we did training.

Science Education for Gifted Learners / Edition 1 by Keith S. Taber

Set in the wider context of debates about the provision for those labelled 'gifted' and 'exceptionally able', this book explores the meaning of these categories, and considers what they may imply in such approaches as setting, streaming, acceleration and enrichment. When you look at Angela's test scores, you notice that she scores significantly higher than the rest of the class. Constructing worlds through science education.

Gifted Children and STEM

One good way to approach such training is to use high-quality materials as the basis for the training sessions to ensure the integration of content and pedagogy.

Online Learning for Gifted Students

And to generate the science to explain them, and the technology to explore them. I do a lot of dolphin research. But he suggests a radically different idea.

Science Education for Gifted Learners

Allow for Groupings Not all gifted students are meant to be the project manager. But we just have to deal with that.

Science Education for Gifted Learners

So, I got old copies of tests and we went through these meticulously and we worked out strategies and we went in these competitions and we won them, we won just about everything we went in because of the training, and plus I had good kids.

Related Books

- [Creating a balance - developing new relationships between women and men.](#)
- [Baker Street irregular.](#)
- [Rules and orders of the Common Council of the city of Boston.](#)
- [Josep Llorens Artigas.](#)
- [Razor edge of balance - a study of Virginia Woolf.](#)