



CoConstruct

Digital learning meets sustainability

coconstruct.eu

Methods of E-Learning







Publisher & Project Coordination

BGZ Berliner Gesellschaft für internationale Zusammenarbeit mbH www.bgz-berlin.de

Project Partners:

Berufsförderungswerk der Bauindustrie Berlin-Brandenburg e.V. Berufsgymnasium für Bauwesen, Architektur und Geodäsie "Angel Popov" Jokilaaksojen koulutuskuntayhtymä / The Federation ode Education in Jokilaaksot Politechnika Poznańska (PUT) Zespół Szkół Budownictwa Nr 1 (ZSB1) SC MANCOM CENTRU S.R.L

Photo credits:

- © iStock.com/Morsa Images
- © Monika Siewczyńska

Berlin, 2023







E-learning in terms of Dalton education



Monika Siewczyńska

Tell me and I'll forget.

Show me and I'll remember.

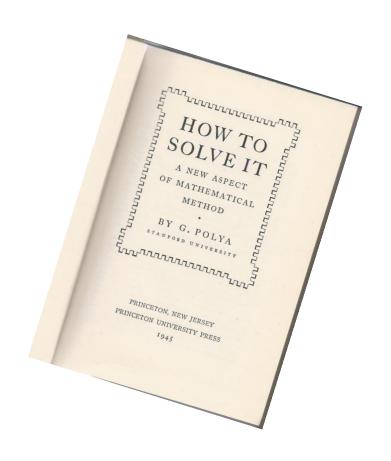
Let me do it and I'll understand.

/Confucius/

Independent performance of the task must be preceded by obtaining knowledge and learning the method of finding a solution.

- G. Polya (1945) distinguished four phases of solving a mathematical problem:
 - 1. Understanding the task
 - 2. Laying out a solution plan
 - 3. Execution of the plan
 - 4. A glance back

The hardest part is coming up with an idea for a solution plan, especially when you have little knowledge about the subject.



The role of the teacher is to give such hints that the given hints lead the students to the method using the knowledge already possessed by the students.

Dalton education

EDUCATION THE DALTON PLAN

BY

HELEN PARKHURST

EDUCATION DIRECTOR, CHILDREN'S UNIVERSITY SCHOOL

With an Introduction by

T. P. NUNN, M.A., D.Sc.
Professor of Education, University of London and
Head of London Day Training College,
University of London

Contributions by
ROSA BASSETT, M.B.E., B.A.
AND JOHN EADES



NEW YORK

E. P. DUTTON & COMPANY
681 FIFTH AVENUE

1922

independence



https://www.pexels.com/

cooperation



https://www.pexels.com/

freedom / responsibility



reflection



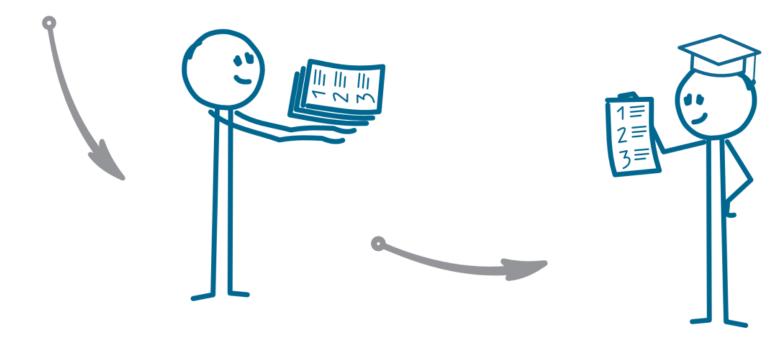
https://www.pexels.com/

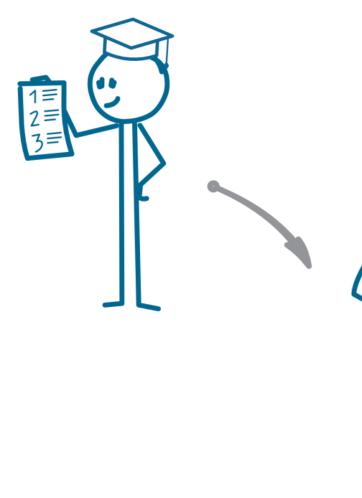
Dalton education

is based on minimizing the teacher's interference and maximizing the use of the learner's independent work

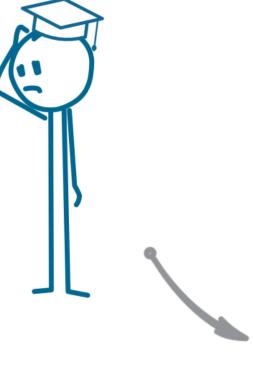


The student has at his disposal properly prepared instructions for performing tasks.

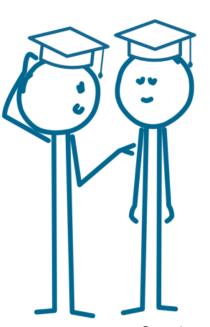




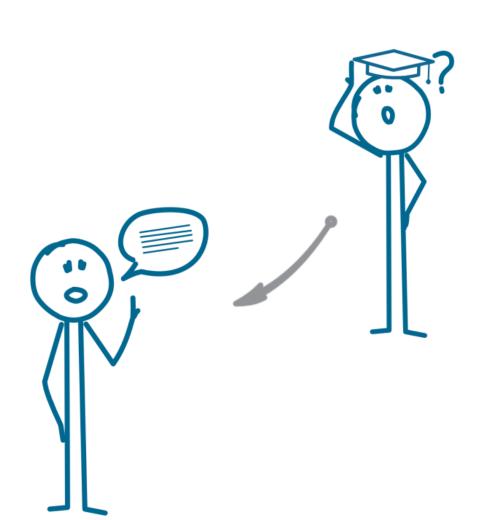
The student is given time to complete the task independently.

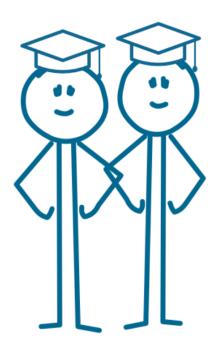


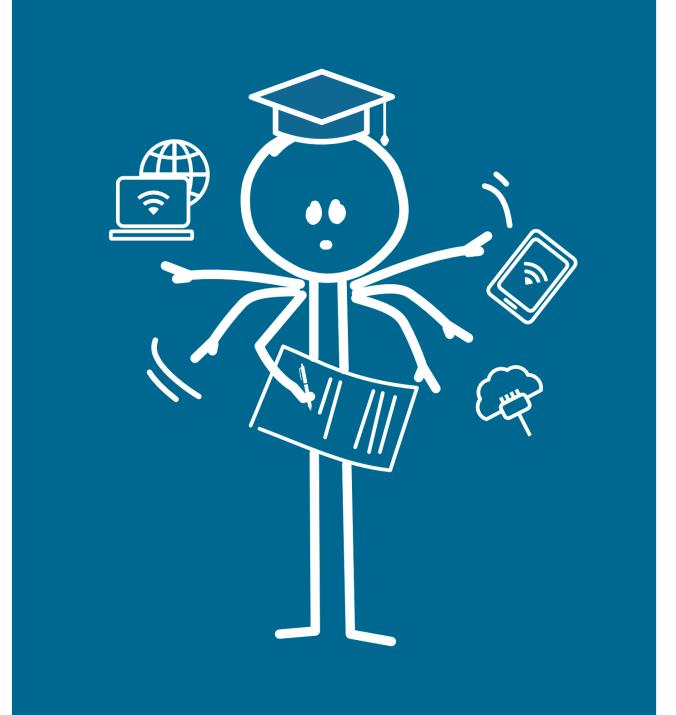
If he has a problem, he can turn to a teammate to look for a solution together.



If they still have a problem, then they can turn to the teacher.







After completing the task, the student independently checks the correctness of the calculations.





Performing a task independently gives a sense of success and motivates for further development.





This organization of work benefits

students by motivating them to be independent

and the **teacher** by limiting the number of questions

and giving the opportunity to provide specific individual help to those students who need it,

without taking up the time and attention of all students to re-translate the entire task.

Collaboration and responsibility are also important in Dalton education,

and working in teams of two or three gives an additional opportunity to practice group work skills,

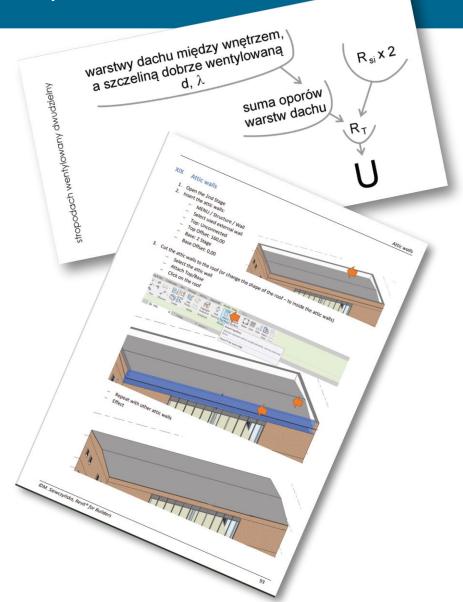
which is very much needed in later professional work.

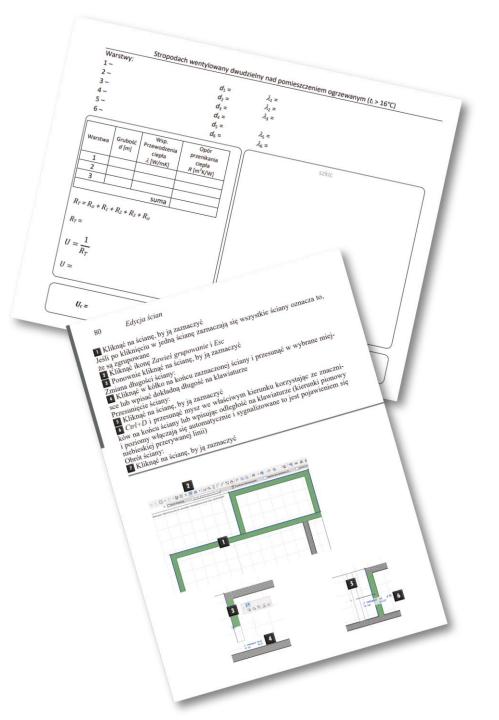
e-learning with instructions for independent work

The presented instructions have been prepared for auditorium classes in Masonry Structures, Building Physics, Architectural Design and BIM Technology.

They were available to students in the form of flashcards or instructional videos on the Moodle platform.

Classes were held remotely on the Zoom platform, which allows you to divide into subgroups.





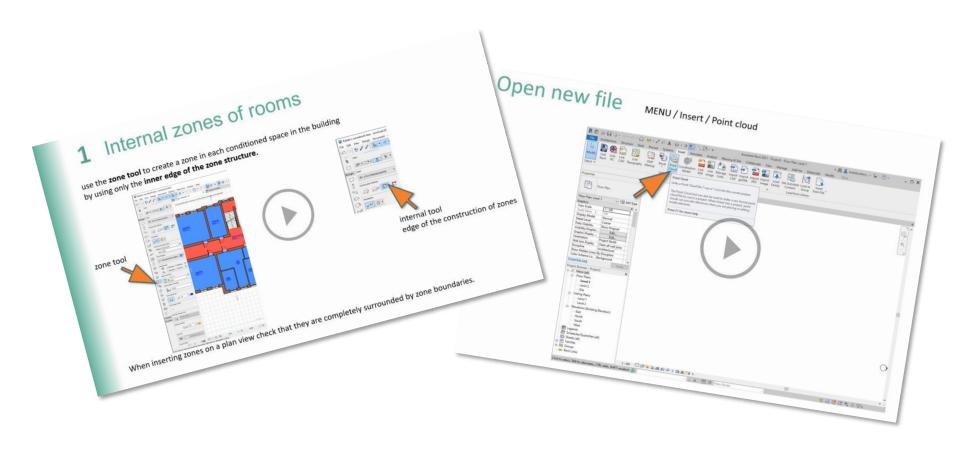
At the beginning of the class, the teacher explained the instructions, and then the students themselves divided into teams and switched to separate "rooms".

The teacher gave the teams time to complete the task on their own, and if they had a question, they could ask it in a common chat, go back to the "main room" or ask the teacher to join their "room".

The teacher monitored the work of the groups, also entering those "rooms" that did not have any questions - then he controlled the progress of work.

After completing the task, separate "rooms" were closed, the results were presented so that everyone could check the correctness of their solution,

and there was still time for a summary and any questions.



Performing a task independently gives a sense of success and motivates for further development.

The teacher's job is to show the student the way and the possibilities.



Project Partnership:



Coordinator

BGZ Berliner Gesellschaft

für internationale Zusammenarbeit mbH

www.bgz-berlin.de

Pohlstraße 67, DE – 10785 Berlin



Germany

Berufsförderungswerk der Bauindustrie

Berlin-Brandenburg e. V.

www.bfw-bb.de



Poland

Politechnika Poznańska

www.put.poznan.pl



ZSB1

www.zsb1.poznan.pl



Bulgaria

PGSAG "Angel Popov"

https://pgsagapvt.alle.bg/



Romania

Mancom GmbH

http://www.mancomgmbh.de/



Finland

JEDU Vocational Educational Centre

www.jedu.fi

