

Title

Spreadsheet calculations
Tabelarni proračuni

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Short description/ main idea

Activities for students: Pokteći simulation to address <https://phet.colorado.edu> Students launch program for tabelarne budgets; create a table in a spreadsheet; Perform measurements on a simulation of the given problem; record your measurements in the table; Based on the obtained data, create a chart; Based on the graph derived conclusion; present the results of measurements; perform general conclusion.

Aktivnosti učenika: Pokteći simulaciju sa adrese <https://phet.colorado.edu>Učenici pokreću program za tabelarne proračune;kreiraju tabelu u programu za tabelarne proračune;Vrše merenja na simulaciji po zadatom zadatku;beleže rezultate merenja u tabelu;na osnovu dobijenih podataka kreiraju grafikon;na osnovu grafikona izvode zaključak;prezentuju rezultate merenja;izvode generalni zaključak.

Learning objectives

Cognitive - Knowledge: Meta □ cognitive

Cognitive - Process: To apply

Affective: To organize values

Psychomotor: To perform independently, skillfully and precisely

Language

English

Serbian

Grade & Age

Age: 16 years

Age: 16 godina

Grade: secondary education

Special need

Visual, Auditive, Psychomotor, Behavioural

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Domain

ICT>ICT tools>ICT tools: adventure games/simulations

Keywords/subject

chemistry, spreadsheet calculations

hemija, tabelarni proračuni

Prerequisites

The student should be adopted by the following terms:

The pH of the mixture, the principles Washing pH, the student should be able to create a table.

Učenik treba da je usvojio sledeće pojmove:

Ph smeše, principe perenja Ph vrednosti, učenik treba da zna da kreira tabelu.

Difficulty

medium

Learning environment

Computer-based, Simulator, Work-based

Duration

45 Minutes

Teaching approach

Behaviourist: Programmed instruction, Drill and practise

Cognitivist: Direct instruction, Collaborative learning, Inquiry learning, Reciprocal teaching

Constructivist: Cognitive apprenticeship, Socratic instruction, Experiential learning, Action research

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Assessment strategy

Summative assessment

Phases

1.spreadsheet

1.Tabelarni proračuni