

**EDITOR-IN-CHIEF**

Prof<sup>o</sup> Me. Isabele de Souza Carvalho

**EXECUTIVE EDITOR**

Nathan Albano Valente

**BOOK ORGANIZER**

Seven Publications LTDA

**EDITORIAL PRODUCTION**

Seven Publications Ltda

2023 by Seven Editora

Copyright © Seven Publisher

Text Copyright © 2023 The Authors

Edition Copyright © 2023 Seven Publisher

**TEXT EDITING**

Stefanie Vitoria Garcia de Bastos

**ART EDIT**

Alan Ferreira de Moraes

**COVER IMAGES**

AdobeStok

**LIBRARIAN**

Bruna Heller

**AREA OF KNOWLEDGE**

Educational Sciences

The content of the text and its data in its form, correctness and reliability are of the author's sole responsibility and does not necessarily represent the official position of Seven Academics Events and Publishing Company. The work can be downloaded and shared if credit is given to the author, but without the possibility of altering it in any way or using it for commercial purposes.

All manuscripts were previously submitted to blind peer review, members of the Editorial Board of this Publisher, and were approved for publication based on criteria of neutrality and academic impartiality.

Seven Publications is committed to ensuring editorial integrity at every stage of the publication process, preventing plagiarism, fraudulent data, or results, and preventing financial interests from compromising the ethical standards of publication. Suspected situations of scientific misconduct will be investigated with the highest academic and ethical rigor.



The contents of this book have been submitted by the author for open access publication, in accordance with the terms and conditions of the Creative Commons 4.0 Attribution License International.

## EDITORIAL BOARD

### EDITOR-IN-CHIEF

Prof<sup>o</sup> Me. Isabele de Souza Carvalho

### EDITORIAL BOARD

Pedro Henrique Ferreira Marçal - Vale do Rio Doce University  
Adriana Barni Truccolo - State University of Rio Grande do Sul  
Marcos Garcia Costa Morais - State University of Paraíba  
Mônica Maria de Almeida Brainer - Federal Institute of Goiás Ceres Campus  
Caio Vinicius Efigenio Formiga - Pontifical Catholic University of Goiás  
Egas José Armando - Eduardo Mondlane University of Mozambique  
Ariane Fernandes da Conceição - Federal University of Triângulo Mineiro  
Wanderson Santos de Farias - University for Sustainable Development  
Maria Gorete Valus - University of Campinas  
Luiz Gonzaga Lapa Junior - University of Brasilia  
Janyel Trevisol - Federal University of Santa Maria  
Irlane Maia de Oliveira - Federal University of Mato Grosso  
Paulo Roberto Duailibe Monteiro - Fluminense Federal University  
Luiz Gonzaga Lapa Junior - University of Brasilia  
Yuni Saputri M.A - Nalanda University, India  
Arnaldo Oliveira Souza Júnior – Federal University of Piauí, CEAD  
Anderson Nunes Da Silva - Federal University of Northern Tocantins  
Adriana Barretta Almeida - Federal University of Paraná  
Jorge Luís Pereira Cavalcante - Iberoamerican University Foundation  
Jorge Fernando Silva de Menezes - University of Aveiro  
Antonio da Costa Cardoso Neto - University of Flores, Buenos Aires  
Antônio Alves de Fontes-Júnior - Cruzeiro do Sul University  
Alessandre Gomes de Lima - Faculty of Medicine of the University of Porto  
Moacir Silva de Castro - Pontifical Catholic University of São Paulo  
Marcelo Silva de Carvalho- Federal University of Alfenas  
Charles Henrique Andrade de Oliveira - University of Pernambuco  
Telma Regina Stroparo - State University of Ponta Grossa  
Valéria Raquel Alcantara Barbosa - Fundação Oswaldo Cruz  
Kleber Farinazo Borges - University of Brasilia  
Rafael Braga Esteves - University of São Paulo  
Inaldo Kley do Nascimento Moraes - State University of Southwest Bahia  
Mara Lucia da Silva Ribeiro - Federal University of São Paulo

S498r

Seven Editora.

Revolutionizing Learning [electronic resource] : Innovative Approaches in Educational Sciences / Seven Editora. – São José dos Pinhais, PR: Seven Editora, 2024.

Electronic data (1 PDF).

Includes bibliography.

ISBN 978-65-6109-092-6

1. Education. 2. Revolution. 3. Learning. I. Title.

CDU 37

**Indexes for systematic catalogue:**

1. CDU: Education 37

Cataloguing at source: Bruna Heller (CRB10/2348)

**Seven Publications Ltda**  
CNPJ: 43.789.355/0001-14  
[editora@sevenevents.com.br](mailto:editora@sevenevents.com.br)  
São José dos Pinhais/PR

## **AUTHOR'S STATEMENT**

The author of this work DECLARES, for the following purposes, that:

You do not have any commercial interest that creates a conflict of interest in relation to the content published;

Declares to have actively participated in the construction of the respective manuscripts, preferably under the following conditions: "a) Study design, and/or data acquisition, and/or data analysis and interpretation; b) Preparation of the article or review to make the material intellectually relevant; c) Final approval of the manuscript for submission";

Certifies that the published text is completely free of fraudulent data and/or results and authorship defects;

Confirms the correct citation and reference of all data and interpretations of data from others Research;

Acknowledges that it has informed all sources of funding received to carry out the research; Authorizes the editing of the work, including catalog registrations, ISBN, DOI and other indexers, visual design and cover creation, internal layout, as well as its release and dissemination according to the criteria of Seven Academics Events and Publishing Company.

## **PUBLISHER'S STATEMENT**

Seven Publications DECLARES, for the purposes of rights, duties and any methodological or legal meanings, that:

This publication constitutes only a temporary transfer of copyright, constituting a right to publication and reproduction of the materials. The Publisher is not co-responsible for the creation of published manuscripts, under the terms established in the Copyright Law (Law 9610/98), in article 184 of the Penal Code and in article 927 of the Civil Code; The author(s) is solely responsible for verifying such copyright and other issues, holding the Publisher harmless from any civil, administrative, and criminal damages that may arise.

Authorizes the DISSEMINATION OF THE WORK by the author(s) in lectures, courses, events, concerts, media and television, provided that there is due recognition of the authorship and editing and without any commercial purpose, with the presentation of the due CREDITS to SEVEN PUBLICATIONS, being the author(s) and publisher(s) responsible for the omission/exclusion of this information;

All ebooks are open access, so don't sell them on your website, partner sites, e-commerce platforms, or any other virtual or physical medium. Therefore, it is exempt from copyright transfers to authors, since the format does not generate other rights beyond the didactic and advertising purposes of the work, which can be consulted at any time.

All members of the editorial board have doctors and are linked to public institutions of higher education, as recommended by CAPES to obtain the Qualis book; Seven Academic Events does not assign, sell, or authorize the use of the names and e-mails of the authors, as well as any other data of theirs, for any purpose other than the dissemination of this work, in accordance with the Civil Rights Framework for the Internet, the General Data Protection Law and the Constitution of the Federative Republic.

## AUTHORS

Alana das Chagas Ferreira Aguiar  
Alicia Rosalva Barbosa Vieira  
Ana Lúcia Basílio Carneiro  
Ana Luíza Dias Trajano  
Ana Luíza Paixão de Araújo  
Andressa Miho Arai  
Antonia Beatriz Cavalcante David Vieira  
Antonio dos Santos Silva  
Blanca F Rodríguez-Hernández  
Camila Silva Bacarin  
Carla Alexandra Ramalho de Sena Martins  
Carlos Eduardo Barbosa Gomes  
Charles Alberto Brito Negrão  
Cíntia Bezerra Almeida Costa  
Davi Patrício Kzam Pereira  
Denis Forte  
Denise Ivana de Paula Albuquerque  
Dora L Gómez-Aguilar  
Ednéia Francisco Cavalcante  
Emerson Ferreira Abreu  
Esdras Ramos Cartonilho Filho  
Ewerton Carvalho de Souza  
Fabrício Soares  
Gabriela Iris Correa Viana  
Helenara Machado de Souza  
Ilisandra Zanandrea  
Isabelle Cristhine Marques Moreno  
Isadora da Rocha Spinola de Mello  
Jael Rúbia Figueiredo de Sá França

José Felipe Machado Leandro  
José Francisco Nunes Guilherme  
Leonardo da Silva Nascimento  
Luana Larissa Aires Franco  
Luís Davi Santos Fernandes  
Luiz Antonio de Oliveira Dantas  
Magda Arlete Vieira Cardozo  
Marcia Cristina Gatto  
Marcos Vinicius Ferreira Pereira  
Maria de Fátima Belancieri  
Maria Luiza Barradas Mota  
Maria Suely de Souza Pereira  
Mariana Gomide Vieira  
Nadia Wagih El Kadri  
Nair Correia Salgado de Azevedo  
Orácio Ribeiro de Oliveira Júnior  
Paula Carolina Rodrigues dos Santos  
Paula de Castro Nunes  
Priscila Cartonilho de Souza Ramos  
Rafael Araujo Pacheco  
Raphaely Domingues Bezerra  
Renato Marchesini  
Rolzele Robson Marques  
Semírames Cartonilho de Souza Ramos  
Thaísa Angélica Déo da Silva Bereta  
Walaci Magnago  
Waléria Magno Rodrigues  
Ysadora Soares Pinheiro

## SUMMARY

### ANALYSIS OF THE LACK OF IMPLEMENTATION OF THE COST SYSTEM IN A PUBLIC HIGHER EDUCATION INSTITUTION

*Luiz Antonio de Oliveira Dantas, Denis Forte and Nadia Wagih El Kadri*

  <https://doi.org/10.56238/sevened2024.033-001> .....1-14

### DIGITAL INNOVATIONS AND SOCIAL-EMOTIONAL EDUCATION: BUILDING RESILIENCE IN EDUCATIONAL SETTINGS

*Walaci Magnago and Paula de Castro Nunes*

  <https://doi.org/10.56238/sevened2024.033-002> .....15-23

### INCLUSIVE PEDAGOGICAL PRACTICES: A PARADIGM UNDER CONSTRUCTION

*Andressa Miho Arai, Ednéia Francisco Cavalcante, Maria de Fátima Belancieri and Magda Arlete Vieira Cardozo*

  <https://doi.org/10.56238/sevened2024.033-003> .....24-45

### TEACHING GEOGRAPHY FOR SUSTAINABILITY AND THE ENVIRONMENT

*Renato Marchesini*

  <https://doi.org/10.56238/sevened2024.033-004> .....46-60

### THE TOXICITY OF AMMONIA: A THEORETICAL APPROACH

*Antonia Beatriz Cavalcante David Vieira*

  <https://doi.org/10.56238/sevened2024.033-005> .....61-64

### TEACHING AND LEARNING EXPERIENCES IN NURSING DISCIPLINES IN WOMEN'S HEALTH CARE

*Raphaely Domingues Bezerra, Semírames Cartonilho de Souza Ramos, Ana Lúcia Basílio Carneiro, Cíntia Bezerra Almeida Costa, Orácio Ribeiro de Oliveira Júnior, Esdras Ramos Cartonilho Filho, Jael Rúbia Figueiredo de Sá França, Maria Suely de Souza Pereira, Ana Luiza Dias Trajano and Priscila Cartonilho de Souza Ramos*

  <https://doi.org/10.56238/sevened2024.033-006> .....65-73

### SMARTPHONES AND SCHOOL PHYSICAL EDUCATION: THE IMPACT OF TACTICAL BOARD APPS ON STUDENT PARTICIPATION AND UNDERSTANDING IN INVASION SPORTS

*Camila Silva Bacarin, Denise Ivana de Paula Albuquerque and Nair Correia Salgado de Azevedo*

  <https://doi.org/10.56238/sevened2024.033-007> .....74-83

## **TRANSFORMATIONS IN EDUCATION: TECHNOLOGICAL INNOVATIONS AND PEDAGOGICAL PRACTICES FOR INCLUSIVE AND PERSONALIZED TEACHING**

*Davi Patrício Kzam Pereira, Luís Davi Santos Fernandes, Emerson Ferreira Abreu, Luana Larissa Aires Franco, Leonardo da Silva Nascimento, Isabelle Cristhine Marques Moreno, Carlos Eduardo Barbosa Gomes, Rolzele Robson Marques, Ana Luíza Paixão de Araújo, Ysadora Soares Pinheiro, Alana das Chagas Ferreira Aguiar and Ilisandra Zanandrea*

 <https://doi.org/10.56238/sevened2024.033-008> .....84-112

## **SUSTAINABLE DIALOGUES: UNIVERSITY, TANNERY INDUSTRY AND ENVIRONMENTAL RECOVERY IN THE TERRITORY OF SAN BENITO**

*Dora L Gómez-Aguilar and Blanca F Rodríguez-Hernández*

 <https://doi.org/10.56238/sevened2024.033-009> .....113-127

## **USE OF PLAY FOR THE TEACHING AND LEARNING OF PHYSICS (HYDROSTATICS) IN HIGHER EDUCATION**

*José Felipe Machado Leandro, Marcos Vinicius Ferreira Pereira, Charles Alberto Brito Negrão, Gabriela Iris Correa Viana, Paula Carolina Rodrigues dos Santos, Waléria Magno Rodrigues, Maria Luiza Barradas Mota, Ewerton Carvalho de Souza and Antonio dos Santos Silva*

 <https://doi.org/10.56238/sevened2024.033-010> .....128-142

## **POSITIVISM AND HISTORICAL-DIALECTICAL MATERIALISM: EPISTEMOLOGICAL INFLUENCES ON BRAZILIAN EDUCATION**

*Rafael Araujo Pacheco and Mariana Gomide Vieira*

 <https://doi.org/10.56238/sevened2024.033-011> .....143-158

## **KNOWLEDGE OF THE BRAIN – REASONS FOR SCHOOL SUCCESS**

*José Francisco Nunes Guilherme and Carla Alexandra Ramalho de Sena Martins*

 <https://doi.org/10.56238/sevened2024.033-012> .....159-166

## **THE GOLDEN MATERIAL AND THE TEACHING OF ADDITION AND SUBTRACTION: A REFLECTION FROM TEXTBOOKS**

*Marcia Cristina Gatto, Fabrício Soares and Helenara Machado de Souza*

 <https://doi.org/10.56238/sevened2024.033-013> .....167-184

## **SCHOOLING OF RURAL WORKERS: CHALLENGES AND OPPORTUNITIES FOR THE GUARANTEE OF RIGHTS TO EDUCATION**

*Alicia Rosalva Barbosa Vieira, Thaísa Angélica Déo da Silva Bereta and Isadora da Rocha Spinola de Mello*

 <https://doi.org/10.56238/sevened2024.033-014> .....185-200