

Year V, v.2 2025 | Submission: 08/12/2025 | Accepted: 10/12/2025 | Publication: 12/12/2025 | Infographics as an Inclusive Tool: Benefits and Challenges in Supporting the Learning of Children with Special Educational Needs (SEN)

Infographics as an Inclusive Tool: Benefits and Challenges in Supporting the Learning of Children With Special Educational Needs (SEN)

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Summary

Children with special educational needs (SEN) have the right to attend regular schools, which should adopt a pedagogy adapted to their needs. School inclusion is essential to combat discrimination and promote a more just society, providing education for all. Given the diversity of student profiles, it is fundamental to use pedagogical strategies that meet the specific needs of each individual. In this context, infographics stand out as effective pedagogical resources. This article aimed to analyze the use of infographics in inclusive education, based on a literature review. Articles published between 2010 and 2025 and previously published official documents were selected. The research focused on studies that address the use of infographics in supporting the learning of students with SEN. It was observed that infographics have proven to be an effective tool to support learning in inclusive education. These visual resources help organize information in an accessible way, promoting more interactive and engaged learning. However, the implementation of infographics faces challenges, such as a lack of ongoing training for teachers and a shortage of adequate teaching resources. To ensure effective inclusive education, it is necessary to invest in pedagogical strategies that integrate infographics, promoting collaboration between teachers and specialized professionals.

Keywords: Inclusive education, Infographics, pedagogical strategy, multimodal text.

Abstract

Children with special educational needs (SEN) have the right to attend regular schools, which must adopt teaching methods adapted to their needs. School inclusion is essential to combat discrimination and promote a more just society, providing education for all. Given the diversity of student profiles, it is essential to use teaching strategies that meet the specific needs of each individual. In this context, infographics stand out as effective teaching resources. This article aimed to analyze the use of infographics in inclusive education, based on a literature review. Articles published between 2010 and 2025 and previously published official documents were selected. The research focused on studies that address the use of infographics to support the learning of students with SEN. It was observed that infographics have proven to be an effective tool for supporting learning in inclusive education. These visual resources help organize information in an accessible way, promoting more interactive and engaged learning. However, the implementation of infographics faces challenges, such as the lack of ongoing training for teachers and the lack of adequate teaching resources. To ensure effective inclusive education, it is necessary to invest in teaching strategies that integrate infographics, promoting collaboration between teachers and specialized professionals.

Keywords: Inclusive education, Infographics, pedagogical strategy, multimodal text.

Introduction

According to the Salamanca Declaration (UNESCO, 1994), children with special needs

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Students with special educational needs (SEN) have the right to attend regular schools, which must accommodate them.

A child-centered pedagogical approach capable of meeting their specific needs. Schools

Regular policies with an inclusive approach are the most effective means to combat discrimination.

To create welcoming communities, promote an inclusive society, and achieve the goal of education.

For everyone.

The inclusion of children with special educational needs (SEN) in the school environment.

This has been one of the greatest challenges and commitments of contemporary education. (For Vioto; Vitaliano)

(2019) it is up to regular schools to promote a new educational culture, based on

principles of human rights, especially the right of all students to an education of

quality, without discrimination and with equal opportunities.

powerful tools for mediating knowledge.

Given the diversity of cognitive, emotional, and behavioral profiles present in the classroom. In the classroom, it becomes essential to use pedagogical strategies that respect the particularities of each student and promote meaningful learning. Leandro et al. (2019) highlight the.

The importance of investing in the continuing education of teachers working in mainstream classrooms. since inclusion is a process that demands the collective engagement of the entire community.

In this school context, visual resources, especially infographics, emerge as...

An infographic is a visual tool that organizes and presents information in a clear and effective way.

Accessible, combining elements such as images, graphics, diagrams, and short texts. Its language

The very nature of the method facilitates the understanding of complex data and sparks the reader's interest through...

visual narrative (Lecina, 2023). De Souza et al. (2024) used infographics as a resource for

communication with an autistic student and observed positive impacts on classroom behavior.

classroom, such as increased social interaction, improved communication, and reduced barriers. These

These advancements have contributed to making the environment more inclusive and participatory.

This article aims to analyze the use of infographics in pedagogical activities.

aimed at children with special educational needs, exploring their benefits and challenges.

within the context of inclusive education. To this end, a theoretical review and reflection were carried out.

about inclusive pedagogical practices that involve the use of infographics in teaching.

Methodology

A literature review was conducted to synthesize studies on the use of infographics as

A pedagogical tool to support the learning of children with special educational needs.

Special Educational Needs (SEN) in the context of inclusive education. Empirical and theoretical articles were considered.

or intervention documents, published between 2010 and 2025, as well as older official documents. The search



The analysis was conducted using the Google Scholar and SciELO databases, using keywords such as "Infographic".

"Inclusive education," "special educational needs," and "learning strategies."

The selection of articles was carried out in two stages: first, titles and abstracts were evaluated.

to ensure relevance. Then, the most suitable articles were read in full. After that

In the screening process, the selected studies were analyzed in detail, focusing on their contribution to the...

objectives of the review.

Theoretical basis

Inclusive education

The 1988 Federal Constitution establishes essential foundations for education in Brazil. Defining it as a right of all and a duty of the State and the family. Article 205 states that:

"Education, a right of all and a duty of the State and the family, will be promoted and encouraged with the collaboration of society, aiming at the full development of the person, their preparation for the exercise of citizenship and their qualification for work (Brazil, 1988)."

Complementing this principle, Article 208, item III, ensures educational services. specialized for people with disabilities, highlighting their priority in the regular education system: "Specialized educational services for people with disabilities, preferably within the network." regular education (Brazil, 1988).

In accordance with the Constitution, the Law of Guidelines and Bases of National Education (LDBEN), Law No. 9.394/1996, reinforces the commitment to inclusive education by defining:

"For the purposes of this Law, special education is understood to be the type of school education offered preferably within the regular education system, for students with disabilities, pervasive developmental disorders, and high abilities or giftedness." (Brazil, 1996).

To guide the practical implementation of Specialized Educational Services (AEE), the Resolution No. 4, of October 2, 2009, establishes operational guidelines within the scope of Education.

"The AEE (Specialized Educational Assistance) has the function of complementing or supplementing the student's education by providing services, accessibility resources, and strategies that eliminate barriers to their full participation in society and the development of their learning (Brazil, 2009)."

Furthermore, the sole paragraph of Article 2 clarifies:

Basic. As per Article 2 of this Resolution:

"For the purposes of these Guidelines, accessibility resources in education are considered to be those that ensure conditions of access to the curriculum for students with disabilities or reduced mobility, promoting the use of teaching and learning materials, spaces, furniture and equipment, communication and information systems, transportation and other services" (Brazil, 2009).

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Between the years 1980 and 2000, Brazil made progress in the inclusion of students with special educational needs.

initially with its integration into regular education and, later, with the Law of Guidelines and Bases

The National Education Law (LDBEN) recognized special education as an official educational modality.

At the beginning of the 21st century, with greater economic stability, inclusion gained prominence in laws and public policies, seeking more effective and equitable pedagogical practices (Gabriel; Drago, 2022).

Decree No. 10.502/2020, entitled National Policy on Special Education: Equitable,

Inclusive and with Lifelong Learning, it was published on September 30, 2020 with the

The objective is to establish a new policy aimed at guaranteeing the right to education and care.

Specialized educational support for students with disabilities and pervasive developmental disorders.

and high abilities or giftedness (Brazil, 2020). However, the proposal was widely criticized.

by various sectors of education. According to an analysis by Septimio; Conceição; Denardi (2021), the decree

This contradicts the principles of inclusive education by adopting an exclusionary approach based on...

The medical model of disability, encouraging segregation through classes and institutions.

specialized. In the face of criticism, the policy was revoked on January 3, 2023.

Although inclusion still faces many challenges, it is observed that the school seeks to meet the needs of the students.

different needs of students, acquiring resources according to their specific needs to favor

The development of their skills. The importance of collaboration among them is also highlighted.

regular classroom teachers and specialized educational support (AEE) teachers in planning

pedagogical actions that promote educational and social progress (Silva; Silva; Schütz, 2021).

To consolidate inclusive education as a universal right and promote a more inclusive society.

Fairness requires strengthening existing policies and listening to the perceptions of managers.

teachers and students (Reis; Coutinho, 2025). For this, the use of educational tools is essential.

appropriate and appropriate pedagogical strategies that take into account the individual needs of

students, promoting the appreciation of diversity in the school environment (Carlou, 2018).

According to Yaegashi et al. (2021), there are still several obstacles that prevent us from stating this with certainty.

Brazil offers a quality education. Among the main challenges are investment.

Insufficient resources in the sector, hindering the provision of efficient basic education; wage devaluation.

of the teachers, incompatible with their training; the lack of incentives for qualification and progression in

teaching career; in addition to the difficulties in including and keeping students with special needs in school.

special education students, from rural areas or areas with difficult access.

De Melo and Montenegro (2025) assessed the challenges and strategies aimed at students with

special educational needs (SEN) and observed that, although teachers recognize the

The importance of inclusive practices and efforts to implement them through games and manipulatives.

and curricular adaptations, their effectiveness is limited by factors such as lack of continuing education,

Institutional support, educational resources, and specialized professionals.



The inclusion process for students with special educational needs (SEN) requires...

Collective participation and the use of pedagogical tools that promote learning and citizenship. and the guarantee of rights ensured by law (Oliveira, 2019). In this scenario, the infographic stands out. as a viable strategy in the teaching-learning process, especially due to its ability to present information in a visual and accessible way. Scolari; Krusser (2015), when investigating the use Regarding this tool in the inclusion of deaf students, they observed that infographics act as a resource. to support teaching, allowing for the review and understanding of the main concepts covered in classroom.

Infographic: benefits and challenges

Lyra (2017) defines infographics as

(...) a type of information visualization that uses figures to illustrate ideas, graphs to represent data and short textual explanations. These three components need to be associated with design elements, generating a visually pleasing presentation, almost how appealing, of the concepts and information (Lyra, 2017, p. 28).

The interrelationship between text and image is not a recent phenomenon. In a convergence culture, where students are immersed in audiovisual interfaces from an early age (through TV, video games and (Internet), a more integrated and intensive use of images and other media is expected in the field of education (Da Costa; Tarouco, 2010).

Infographics are effective resources in the educational context because they synthesize content and... to make complex information more accessible, facilitating learning (Pinheiro et al., 2020).

Furthermore, their use and creation contribute to the understanding of the content, stimulating the...

Creativity, information organization, and logical reasoning all contribute to learning.

broader and more structured (Bottentuit Junior; Mendes; Da Silva, 2017). Lyra et al. (2017)

A comparative study demonstrated that infographics are as effective as printed materials.

traditional methods in the learning and knowledge retention process. According to Silva et al. (2025), the Infographics go beyond being supplementary resources; they are strategic tools in teaching.

Inclusive learning, because by diversifying the languages used in the classroom, they promote a More accessible education tailored to the needs of all students.

Infographics, as a visual teaching resource, have proven to be an effective tool in... inclusive and special education process, facilitating the learning and communication of students. with different needs. Several studies highlight its potential: Souza and Maynardes (2021)

They highlight design as a facilitator in the visual experience of the deaf, pointing out the advances scientific in the creation of visual didactic content that promotes inclusion. Amil et al. (2021)

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They reinforce the importance of technologies, such as infographics, in promoting inclusion and interaction.

social and communication, especially for children with autism. Maia (2020) used infographics.

motivated to spread information about autism, providing playful educational stimuli.

for family members and healthcare professionals. Alves (2018) has already demonstrated the feasibility of using

Infographics in teaching Chemistry to deaf students, showing that these tools can make the

More dynamic and engaging teaching practices.

According to Bottentuit Junior; Mendes; Da Silva (2017), despite the technological advances that

While they facilitate the use of new resources, such as infographics, some barriers persist. Brito (2022)

points out that, despite the widespread circulation of infographics in print and digital media, many

Educators believe that students will have difficulty identifying which text genre this belongs to.

The tool belongs, although its purpose is to inform, explain, or instruct on various topics.

Coscarelli and Ribeiro (2022) conducted a survey with 112 teachers about reading and

The production of infographics in basic education and found that working with multimodal genres

In schools, this practice is still in its early stages, mainly due to a lack of ongoing training for teachers.

and to the lack of technological infrastructure in the institutions.

The Role of Infographics in Diversifying Teaching Methods and Personalizing Learning

learning

The adoption of innovative strategies has been crucial to improving teaching processes.

learning and the holistic development of students, highlighting the need for further research for the

constant improvement of pedagogical models (Manzano, 2025). Multimodality, which

Integrating different media into teaching is an essential principle of instructional design (Machado Júnior,

2025).

For Lima; Catelão (2019)

"The infographic fits within the standards of multimodality, since it uses multiple languages to convey a message."

Whether it's an idea or specific content, the notion of simultaneous information is reinforced, creating two modalities.

The semiotic systems used in its composition, especially the verbal and visual ones, are integrated, and it is precisely through this system that...

which allows us to affirm its potential in a plausible recurrence with a genre of discourse to be applied to the domain.

school (Lima; Catelão, 2019, p. 10).

The use of videos, infographics, and multimedia presentations makes the educational environment more...

Dynamic and engaging, facilitating the understanding of concepts. When creating or analyzing infographics, the

Students improve their organizational, precision, and cohesion skills, which are essential for producing...

clear content and for effective decision-making (Souza et al., 2025).

Creating infographics requires careful planning, which favors...

development of essential cognitive skills, such as attention, perception and decision-making,

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contributing to the training of self-employed professionals (Ismério; Gentil; Leon, 2022). When

Used by teachers as an auxiliary tool in teaching specific topics, the infographic...

It becomes a valuable resource because it allows information to be transmitted in a clear, concise, and dynamic way. especially when the topic requires more details (Cortes et al., 2014).

Silva and Magalhães (2022) evaluated the use of the infographic genre in the development of

Reading, writing, and multiliteracy skills with 7th-grade elementary school students.

The results indicated that working with the infographic genre contributed significantly to

 $the \ understanding, interpretation, \ and \ production \ of \ multimodal \ texts, \ encouraging \ a \ critical \ perspective \ on \ them.$

various topics.

Melo (2016) evaluated an 8th grade class in elementary school to answer the following

Questions: Can students identify the relationships of meaning that multimodality...

What does it present? What are the contributions of working with infographics to student performance?

Regarding reading and text production? During the study, it was observed that, although the students

While they recognize the importance of images in constructing meaning alongside verbal text, they also...

They had difficulty understanding multimodal language. Even though they were able to...

integrating images and text, they lacked a clear understanding of elements such as colors, shapes, and

positions. The research also revealed that, although the students did not consider themselves good readers,

Many read outside of school, mainly on social media. However, school reading was viewed

as disconnected from their interests, with long texts and embarrassing evaluations.

Final considerations

The use of infographics as a teaching resource has proven to be an effective tool in...

Inclusive education, especially in supporting the learning of children with special needs.

Special educational resources (SEN). These visual resources, by organizing information in a clear and...

accessible, they contribute to the cognitive and social development of students with different profiles,

like the deaf and autistic, facilitating the understanding of complex content and promoting a

A more interactive and playful approach.

However, the implementation of infographics faces challenges, such as a lack of training.

continuous challenges for teachers and the scarcity of specialized teaching resources. The integration of

Visual design in everyday school life needs to be well-planned to ensure inclusive communication.

that meets the needs of each student.

For inclusive education to become more effective, it is essential that educational managers...

Invest in pedagogical strategies that include the use of infographics, promoting collaboration.

among teachers and specialized professionals, in addition to continuously adapting the materials.

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Educational. In this context, infographics not only inform, but also transform the process.

educational, enabling more equitable learning for all students.

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