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RESEARCH ARTICLE

# Cultivating Inclusive Learning Environments: Incorporating Diversity Through Culturally Responsive Pedagogy

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#### Abstract

Culturally responsive pedagogy (CRP) is an educational approach that places paramount importance on acknowledging students' cultural backgrounds, experiences, and perspectives. Its fundamental aim is to cultivate a learning environment that is inclusive and conducive to the success of all students. The effectiveness of CRP hinges on a multitude of individual factors, with cultural recognition and appreciation playing a pivotal role. This entails creating space within the curriculum and instructional methods to embrace the diverse cultural identities and heritages of students. Incorporating culturally relevant teaching materials and methods constitutes another vital aspect of CRP, with a dual purpose of engaging and inspiring students from various backgrounds. Moreover, CRP advocates for self-reflection and the promotion of social equity, placing particular emphasis on educating students about how society and culture mold their experiences and encouraging them to become advocates for social justice. CRP encompasses a spectrum of elements, including collaborative and experiential learning strategies, the cultivation of a positive and supportive classroom atmosphere, and the fostering of strong teacher-student relationships. These components collectively contribute to the realization of CRP's objectives. This study aims to dissect the multifaceted facets of CRP and elucidate why each element plays a crucial role in creating educational institutions that are not only welcoming but also safe for all students. The paper offers an in-depth exploration of CRP, firmly grounded in various theoretical frameworks and empirical research. It concludes by offering practical recommendations for educators interested in implementing CRP in their own classrooms. Ultimately, the report underscores the indispensability of CRP in the pursuit of a just and equitable educational system. It posits that CRP has the potential to profoundly impact students from diverse cultural backgrounds, making it an essential approach for fostering inclusivity and diversity within the educational landscape.

#### Keywords

Collaborative Learning, Critical Consciousness, Cultural Diversity, Culturally Responsive Pedagogy, Equity and Inclusion, Experiential Learning, Social Justice.

### 1. Introduction

In the classroom, students' cultural identities and experiences are taken into account and addressed through culturally responsive pedagogy (CRP) (Alim & Paris, 2017; Poole, Agosto, Greenberg, Lin, & Yan, 2021). To use this strategy, teachers must recognise and appreciate the many ways in which students' cultural backgrounds shape their learning, thinking, and actions (Kondo, 2022; Min, Lee, Hodge, & Croxton, 2022). CRP aspires to furnish a classroom in which all children feel safe, valued, and challenged. Culturally sensitive teaching encompasses a wide range of factors. The purpose of this study is to examine the numerous facets of CRP, from its description and background to its theoretical foundations and

classroom applications (Hanesworth, Bracken, & Elkington, 2019; Kelly & Fields, 2020). The process of defining CRP is one of its most basic aspects. To put it simply, CRP is a method of education that recognises and appreciates each student's own cultural history and experiences (Hale, 2023; Michalec & Wilson, 2022). It is a theoretical framework that accounts for how pupils' cultural backgrounds affect their learning and their perspectives on the world (Blackshear & Culp, 2021; Shields & Hesbol, 2020). The definition of CRP is crucial because it lays the groundwork for realising the value and use of the concept in the classroom. The development of CRP over time is another key aspect. Over time, and in response to shifting social and political climates, the idea of CRP has developed. For instance, the Civil Rights Movement of the 1960s and 1970s had a major impact on the way people talked about CRP at the time. Around this time, educators and activists started questioning the status quo of education, which had historically failed to include and actively disenfranchised pupils of colour.

The tale of CRP is important because it emphasises the need of addressing issues of equity and social justice in the classroom and demonstrates the necessity for educational reform. Another essential facet of CRP is its theoretical foundations. Multicultural education, sociocultural theory, and critical race theory are just a few of the theoretical pillars on which CRP is built (Morrison, Rigney, Hattam, & Diplock, 2019; Rall, Morgan, & Commodore, 2020). Culture, racism, power, and identity all interact in intricate ways in the classroom, and these theories offer a prism through which teachers may better comprehend these dynamics. CRP's theoretical foundations are vital because they offer a meta-conceptual map for figuring out how to make classrooms welcoming to all students.

The crucial but often neglected aspect of CRP is its actual application in the classroom. Changing the curriculum and teaching methods to accommodate CRP is essential (Ladson-Billings, 1995; Lopez & Lopez, 2016). To do this, teachers must ensure that their classrooms are welcoming and safe places for kids of all backgrounds to study and grow. Culturally responsive teaching (CRT) is a method of instruction that seeks to establish a classroom that is welcoming to and supportive of students from a wide range of cultural backgrounds and experiences (Cavazos, Trejo, Cavazos-Vela, Garza-Ochoa, Marin, & Racelis, 2022; Robinson, Toliver-Smith, & Stigar, 2023). CRT is based on the principle that each student has valuable cultural insights to provide and that these should be welcomed and appreciated. CRT is not a cookie-cutter method; rather, it takes into account each student's unique cultural and language background. The goal of CRT is to provide students of all backgrounds and learning styles with a stimulating and encouraging classroom setting (Bucciarelli, 2014; Dover, 2013). By levelling the playing field in terms of educational opportunity, CRT contributes to reducing disparities in student success. Culturally relevant literature is an example of culturally responsive education (Chase, 2019; Wilcoxen, Steiner, & Bell, 2021).

This may be done by using books and other reading materials that are representative of the diversity of the classroom's pupils. A teacher with a predominantly Hispanic class can decide to incorporate works written by Hispanic writers or set in Hispanic settings. This does double duty by validating students' cultural background and helping to keep them actively engaged in the learning process. Language that is inclusive of pupils' cultural and linguistic backgrounds is another form of CRT (Delk, Vaughn, & Hodge, 2022; Subero, Vila, & Esteban-Guitart, 2015). This might include enabling students to speak their native languages in class or just using terms and phrases from other languages in class discussions and tasks. If a teacher knows that some or all of her pupils speak Spanish at home, she may encourage them to do so in contexts such as small-group work and journaling.

# 2. Effective Use of Multicultural Literature in the Classroom

Relationships with students and their families are an integral part of culturally responsive instruction. This might entail getting to know the kids' cultural backgrounds and applying that knowledge into lessons. If a teacher knows that a significant number of her students celebrate the Lunar New Year, she can plan lessons and activities around the event, or she might invite students' families to share their customs with the class. Culturally responsive evaluations are another tool used in CRT. Students' cultural and linguistic backgrounds should be considered when constructing assessments so that students may exhibit their knowledge and abilities in ways that are important to them (Saint-Hilaire, 2014; Spalding, Klecka, Lin, Odell, & Wang, 2010). A teacher who knows that many of her pupils learn best through visual means may choose to supplement textual assignments and examinations with additional visual aids and hands-on activities. Part of being culturally sensitive in the classroom is making sure everyone feels welcome and safe there. Use students' own experiences and viewpoints in class discussions, or provide them with opportunity to offer their own (Parkhouse, Gorlewski, Senechal, & Lu, 2021; Price, Green, Memon, & Chown, 2020). Teachers with a multiethnic classroom could, for instance, encourage their students to tell each other tales about their home countries, or they might organise group activities that encourage students to learn about and celebrate one other's cultures.

To establish a welcoming and supportive classroom for all students, teachers should adopt a culturally responsive pedagogy that takes into account their diverse cultural origins and experiences. Culturally responsive teaching (CRT) entails a number of practises, including the use of culturally relevant literature, language that reflects students' cultural and linguistic diversity, relationships with students and their families, culturally responsive assessments, and an environment that is welcoming to all students (Fabionar, 2020; Ramlackhan, 2020). Teachers can better serve their students' needs by adopting CRT in order to provide them with a high-quality education that is both personally meaningful and respectful of each student's own cultural background. Education that is culturally sensitive respects and celebrates the uniqueness of each student and their surroundings. It is a strategy for increasing student involvement in the classroom by focusing on each individual's unique cultural background and perspectives. A culturally responsive educator takes into account pupils' diverse cultural identities while planning lessons and implementing pedagogical practises. In this essay, we will go through a model for culturally sensitive instruction and show you how it works in practice.

Cultural competency, culturally responsive teaching techniques, culturally responsive curriculum, and culturally respon-

sive classroom management make up the framework for culturally responsive education (Sandoval, 2016; Thomas & Berry III, 2019). We will take a closer look at each of these parts and show you how you may use them in the classroom. Understanding, appreciating, and getting along well with individuals from different cultural backgrounds are all part of being culturally competent. A culturally competent educator sees culture for what it really is: a living, evolving, and intricate web of shared assumptions, norms, and practises. Teachers are aware that their personal values and experiences shape how they approach the classroom. Teachers with cultural competence work hard to make their classrooms welcoming and accepting of all pupils, regardless of their background or culture (Heringer, 2019; Paris, 2017). A culturally competent educator may, for instance, begin the school year by having pupils introduce themselves and talk about their cultural identities. Using a writing prompt, group conversation, or collaborative project can all help achieve this goal. The educator may also choose to include student cultural variety into the classroom through the use of literature, music, and artefacts.

# 3. Cultural Diversity and Equity in Educational Assessment

By making connections between students' own cultural experiences and the curriculum, culturally responsive teaching approaches increase student engagement and achievement. Teachers that are culturally sensitive understand that each student has unique learning needs and tailor their lessons appropriately (Lopez, 2015; Phuntsog, 1999). In addition, they work to acknowledge and include students' cultural viewpoints into lessons. A culturally sensitive educator could have their pupils work together on projects and discuss what they've learned through cooperative learning activities, for instance. Teachers may also find it helpful to utilise texts and media that feature characters of many ethnicities and backgrounds to better relate to their multiethnic classrooms. The instructor may also utilise storytelling to establish rapport with the class and inspire students to open up about their own lives and cultural backgrounds. A culturally responsive curriculum is one that takes into account the many cultural identities of its pupils and tailors its approach accordingly (Butler, Atwater, & Russell, 2014; Chang & Cochran-Smith, 2022).

Teachers that are sensitive to cultural norms understand that pupils learn better when they can make personal connections to the material. They also recognise the potential of curricula to improve cultural sensitivity and understanding. A culturally sensitive educator may, for instance, incorporate the personal experiences of immigrants from all over the world into a unit on immigration. They may also integrate conversations about the difficulties immigrants encounter in adjusting to a new culture and utilise literature that represents the experiences of immigrant families. The educator may also choose to have outside speakers or members of the community who may share their insights with the students (Harkins Monaco, Brusnahan, & Fuller, 2023; Hutchison & White, 2020). Management that is culturally sensitive in the classroom encourages students to behave well and value their differences. Teachers who are sensitive to cultural differences understand that the way they manage their classrooms may unwittingly cause certain students to feel uncomfortable or even marginalised. The goal of culturally responsive pedagogy (CRP) is to provide a classroom setting that is welcoming and supportive of all students, regardless of their cultural backgrounds. CRP's mission is to promote academic achievement by encouraging students to strengthen their sense of cultural identity, broaden their worldview, and value the contributions of others (Evans, Turner, & Allen, 2020; Palmer, Vodicka, Huynh, D'Alexander, & Crawford, 2022). Educators can use the following methods to further culturally sensitive pedagogy: Grow your cultural competence. Teachers who are culturally competent understand their students' cultural contexts and utilise this information to design lessons that meet their needs. Developing one's cultural knowledge and sensitivity is a continual process that necessitates introspection and professional growth. Teachers may learn more about cultural competence by engaging in a number of different activities, including attending conferences and seminars, reading relevant materials, and engaging in online discussions. Culture-sensitive teaching is one method of ensuring that students from all backgrounds are given an equal opportunity to learn and grow (Codding, Alkhateeb, Mouza, & Pollock, 2021; Guo-Brennan & Guo-Brennan, 2020). Books, movies, and other media that are representative of students' cultural origins, as well as courses and activities that make use of these traditions and practises, might all fall under this category. If a teacher has a class made up mainly of Hispanic kids, they can opt to read and celebrate works by Hispanic authors and observe cultural rituals like the Day of the Dead.

Third, make use of inclusive language, which is defined as language that creates a sense of belonging and respects and cherishes variety. By utilising gender-neutral terminology, avoiding preconceptions, and speaking in a way that is respectful of all cultures, educators may use language that is more inclusive. Teachers can avoid using terminology like "boys and girls" in favour of more neutral phrases like "students" or "scholars." Create bonds with your pupils and their families (Ramlackhan & Catania, 2022; Samuels, 2018). Establishing meaningful connections with children and their families is crucial to developing a classroom that is sensitive to their cultural backgrounds. Teachers may facilitate discussions on students' and families' cultural identities and experiences, and they can also work in tandem with families to further their kids' education. Teachers may encourage cultural diversity in the classroom by providing venues for students to present on their own cultural customs and traditions, holding parent-teacher conferences, and inviting families to join in classroom activities (Subagyo, 2022; Vale, Atweh, Averill, & Skourdoumbis, 2016). Do culturally sensitive tests: Assessments are considered culturally responsive when they are designed to accommodate students of diverse cultural backgrounds and provide students with opportunities to demonstrate their learning in contexts that are personally important to them. Among them are tests that take into account a variety of means of expression.

### 4. Incorporating Indigenous Perspectives into Culturally Responsive Pedagogy

An approach to education known as "culturally responsive teaching" prioritises creating a classroom that is welcoming and supportive of students of different identities and life experiences. With the proliferation of distance education in recent years, it is crucial to refine methods for culturally sensitive online instruction. In this article, we will go over some of the most important guidelines for culturally sensitive online instruction,



and provide examples to back up our claims. Building a feeling of community amongst learners is essential for culturally sensitive online education (C. Howard, Overstreet, & Ticknor, 2018; Kaur, 2012). Isolation is a common problem in online classrooms, especially for students who are not tech savvy or who originate from cultures where distance education is not the norm. Teachers have a responsibility to provide a safe and encouraging classroom setting for their students. Teachers could have their students identify themselves and talk about where they are from, or they might use online discussion boards or virtual office hours to get to know each student on a more personal level (Madkins & Howard, 2023; Madkins, Howard, & Freed, 2020).

Teachers that are culturally sensitive understand that each student has a unique set of experiences, perspectives, and methods of learning that they bring to the classroom. Teachers using online platforms should diversify their approaches in order to appeal to their pupils. Teachers may employ a variety of media, including as films, podcasts, and infographics, to communicate content to students (Murray, 2021; Sanders Johnson, 2021). They might also facilitate student interaction and cooperation by means of group projects or virtual conferences. Educators who practise cultural responsiveness understand the value of valuing and welcoming other points of view (Freire & Valdez, 2017; Lalas & Strikwerda, 2020). It is important to recognise kids' unique cultural experiences while simultaneously emphasising the achievements of underrepresented groups.

Teachers can utilise a wide range of tools at their disposal to introduce students to new points of view in an online classroom. Classes may feature readings or videos by writers or speakers from a variety of backgrounds, or they may welcome speakers with unique perspectives to the classroom. When students come from different cultural and language backgrounds, online communication can be more difficult (Austin et al., 2019; Wlodkowski & Ginsberg, 1995). To ensure that all students feel included and understood, teachers should be sensitive to differences in language and communication styles. For this reason, some educators choose not to use specialised terms or jargon in the classroom. They may also provide time for pupils to ask questions and get more information when they are confused.

Reflection and analysis are emphasised in a culturally sensitive classroom. Teachers may foster students' capacity for introspection and analysis by giving them the chance to reflect on their own experiences and opinions in an online classroom. Teachers may assign research papers that act as personal reflections on a given topic, or they may set up online forums where students may discuss controversial issues while maintaining civil discourse. Online students may feel more isolated from their teachers and classmates, thus it is more crucial to provide timely and insightful feedback in this medium. Teachers should aim to provide students timely, insightful feedback that draws attention to both their strengths and opportunities for growth (McIntosh & Nenonene, 2022; Whitaker & Valtierra, 2018). Online tests and assignments are only two examples; instructors might also have virtual office hours or hold one-on-one sessions to provide students individualised feedback. Last but not least, culturally responsive educators know that being flexible and adaptable is essential for reaching every learner. Teachers in virtual classrooms need to be flexible in order to fulfil the demands of their diverse student populations.

### 5. Culturally Responsive Classroom Management Strategies

The term "culturally responsive pedagogy" (CRP) refers to an approach to education that takes into account and celebrates the wide range of cultural identities among today's pupils. The goal is to provide a welcoming and safe learning space for all kids, regardless of their background in terms of colour, ethnicity, language, or socioeconomic level. Improvements in student achievement, student engagement, and teacher satisfaction have all been linked to the use of CRP in the classroom (Borrero, Flores, & de la Cruz, 2016; Nolan & Keazer, 2021). The incorporation of culturally appropriate textbooks and other educational resources is an integral part of CRP. While teaching about a historical event, a social studies teacher may employ primary source materials written from several points of view. Students get exposure to a greater range of ideas and are prompted to engage in critical thinking about those ideas when presented with numerous views. The cultivation of instructive methods that are culturally sensitive is another vital component of CRP. This necessitates modifying curriculum to accommodate the learning styles of a wide range of students (Buzzetto-Hollywood, 2023; Gilpin, Clinton-Lisell, Legerski, & Rhodes, 2022). Teachers may, for instance, tailor their methods of instruction to the needs of their ESL students or make use of students' cultural practises during lessons. Teachers may foster a more welcoming and supportive classroom climate by tailoring their lessons to the requirements of individual pupils.

Developing trusting connections between educators and their pupils is another focal point of CRP. This necessitates treating each kid as an individual and learning about their specific background and set of circumstances. Teachers may do more for their students' learning and motivation if they take the time to develop positive connections with them based on mutual trust and respect. Recognizing and appreciating the wide variety of student identities, experiences, and cultural origins is the goal of culturally responsive teaching (CRT) (Garces-Bacsal & Elhoweris, 2022; Paris, 2012). The goal of culturally responsive teaching (CRT) is to design classrooms that value and make use of students' varied language, cultural, and socioeconomic backgrounds. Culturally responsive teaching (CRT) in special education entails adapting pedagogical practises, course content, and evaluations to the specific cultural backgrounds of individual pupils. In this paper, I will define "culturally responsive teaching" in the context of special education and give some concrete instances of its successful use. Recognizing that children with disabilities come from a variety of cultural backgrounds is central to culturally responsive teaching (CRT) in special education.

Several factors contribute to this variety, such as racial and ethnic composition, religious beliefs, linguistic skills, and socioeconomic standing. Students with disabilities may be impacted in many ways by their cultural backgrounds, and CRT in special education acknowledges this (Galloway, Callin, James, Vimegnon, & McCall, 2019; Paris & Alim, 2017). A student with a handicap from a low-income household, for instance, may encounter supplementary obstacles to their education, such as limited financial support, poor nutrition, or unsafe living conditions. Special education instructors, in order to foster a culturally sensitive classroom, must develop strong connections with their children and their families. Learning about and appreciating each student's unique cultural heritage is essential. For instance, educators may enrich the classroom experience by learning about and observing students' cultural holidays, customs, and festivities. As a result, students are more likely to feel comfortable asking questions and participating in class discussions (Adams & Farnsworth, 2020; Halim, Ramli, & Ali, 2022). Using culturally appropriate teaching methods is also an important part of culturally responsive teaching (CRT) in special education. To make lessons more interesting and applicable, educators might draw on students' cultural knowledge and experiences. There are several ways in which educators might draw on students' cultural backgrounds to impart knowledge and skills. Teachers can also make use of books, movies, and photographs that reflect the cultural variety of their pupils. Educators are increasingly placing an emphasis on culturally responsive pedagogy (CRP) and performancebased assessment (PBA) (Khalifa, Gooden, & Davis, 2016; Taylor & Sobel, 2011). These two ideas are related because CRP may function as a guideline for developing and enforcing powerful PBA procedures. This article will define CRP and PBA, explain why they are relevant in the classroom, and show how they might be applied in practise.

# 6. The Role of Technology in Culturally Responsive Pedagogy

When teachers consider their students' backgrounds and customs, they are engaging in culturally responsive education. This necessitates an appreciation for, and incorporation of, students' diverse cultural origins among educators. Among the tenets of CRP are the development of trusting relationships between students and instructors, the encouragement of an open and accepting classroom climate, and the incorporation of activities that are meaningful to students' cultural backgrounds into the curriculum (Arvanitis, 2018; Bunyamin & Isa, 2022). Culturally responsive pedagogy (CRP) refers to the practise of tailoring instruction to students' cultural backgrounds by, for instance, using literature from students' cultures, observing students' cultural holidays and traditions, or adapting other forms of instruction. Because of this, students may develop a deeper interest in and understanding of the material being covered in class. In contrast, performance-based assessment is a method of evaluating a student's learning by seeing how well they use what they have learned in practical settings. Projects, portfolios, and oral presentations are just a few examples of the various formats suitable for this kind of evaluation. The assessment of students' critical thinking, problem solving, and communication skills is highly valued in PBA (Gist, Jackson, Nightengale-Lee, & Allen, 2019; Salter, 2000). Teachers that employ PBA could, for instance, have their pupils work on a project that calls for them to apply what they have learned to the real world by solving a problem. It is possible that the educator may evaluate the student's research, analysis, and presentation skills.

Effective PBA procedures may be designed and implemented with the help of the framework provided by CRP. Teachers are more likely to design lessons that are meaningful to their students' cultural identities when they employ CRP. The term "culturally responsive teaching" refers to an approach to education that takes into account each student's unique values, customs, and experiences (Davy, 2016; Johnson, 2014). It's a method that takes into account the fact that every student is unique and has certain requirements for academic success. Culturally responsive education is crucial in the fields of science and mathematics to provide a welcoming and stimulating classroom for all students. In this post, I will describe how a paradigm for culturally sensitive instruction in STEM subjects came to be, and provide some case studies. The four cornerstones of the paradigm for culturally responsive science and mathematics education are teacher cultural competency, high standards, curriculum and instruction that takes into account students' cultural backgrounds, and a safe and accepting classroom setting (Johnson & Fuller, 2014; Pradhan, 2015). Each factor is essential in crafting a strategy to teaching science and mathematics that is both effective and sensitive to the needs of diverse student populations.

Understanding, appreciating, and respecting pupils' cultural diversity is what we mean when we talk about cultural competency. Culturally relevant education relies on this principle. A teacher who is culturally competent is one who is aware of and sensitive to the wide range of student cultural backgrounds and uses this awareness to foster an inclusive classroom. A scientific teacher who is sensitive to the fact that some cultures have superstitions or taboos around particular animals or plants, for instance, might devise alternate lesson plans that do not violate such norms. Having high standards for all pupils is a central tenet of culturally responsive education (T. C. Howard, 2003; Walker, 2019). It assumes that all pupils, regardless of their cultural origins, have the potential to study and succeed at high levels. Instructors should push their pupils to their limits, but also equip them with the resources they need to succeed. If you're a maths teacher, for instance, you may assign some really difficult problems that draw on a variety of cultural traditions. Third, educating in a way that takes culture into account: The incorporation of materials and methods that are culturally relevant is important to a culturally responsive curriculum and instruction strategy (Parhar & Sensoy, 2011; Shmulsky, Gobbo, & Vitt, 2022). To make learning meaningful and interesting for all students, teachers should draw on a variety of cultural viewpoints, examples, and circumstances. A science educator, for instance, may utilise cultural examples to illustrate ideas like biodiversity and climate change.

An inclusive and inviting learning environment for all children depends on three interrelated concepts: teacher empathy, teacher dispositions, and teacher training for culturally responsive pedagogy. In this essay, I will discuss why these ideas are significant and how they may be used in the classroom. To have empathy is to feel and comprehend what other people are going through. In the classroom, empathy involves putting yourself in the shoes of your pupils so you can meet their needs. Teachers with compassion provide an atmosphere in which all children may learn and grow while being treated with dignity and respect (Copeland Solas & Kamalodeen, 2022; Lopez, 2011). They are attentive to their kids, validate their experiences, and offer comfort when necessary. An empathic educator, for instance, could enquire as to how a student is doing and provide advice or referrals to assist them manage if they are experiencing difficulties in their personal lives. Dispositions are the attitudes, beliefs, and values of teachers that influence their behaviours and relationships with their pupils. Establishing a culturally responsive classroom relies heavily on the development of desirable attitudes like openness, respect, and a desire to learn. Instructors who have the right frame of mind are more likely to respect their students' ethnic identities and make accommodations for their students' unique life experiences. A teacher with a disposition of openness, for instance, could encourage students to share their cultural customs and beliefs with the class, while a teacher with a disposition of respect might seek out resources and materials that represent the variety of their pupils.

#### 7. Addressing Racial and Ethnic Disparities in Education Through Culturally Responsive Pedagogy

The term "culturally responsive pedagogy" (CRP) refers to a method of teaching that takes into account and celebrates the many cultural identities and experiences of its pupils. Learning to understand and control one's emotions, build and maintain meaningful relationships, and work towards one's own objectives are all components of social and emotional learning (SEL). There are a number of assumptions that teachers and students could make about SEL instruction utilising a CRP framework. These beliefs can affect how teachers approach SEL instruction and, by extension, student achievement. In this paper, we will discuss how culturally responsive pedagogy may be used to better instruct students in social and emotional learning. First, CRP is thought to be effective in the classroom because it is thought to be relevant to students' experiences and interests. In other words, students believe that the SEL lessons they are learning are relevant to their own lives and cultures. To exemplify ideas like emotional control and connection development, a teacher utilising a CRP approach to SEL can read aloud or share a story from a student's culture (Lin, 2022; Madkins et al., 2019). This makes SEL more approachable and interesting for kids by recognising and appreciating their diverse cultural backgrounds and experiences.

Two, CRP is seen to be an inclusive approach to teaching social and emotional learning. This implies that the method seeks to accommodate pupils from diverse backgrounds in terms of race, ethnicity, language, and culture. To make sure all their pupils are heard, a teacher employing a CRP approach to teaching SEL can, for instance, add more than one language or cultural perspective into their lessons. Doing so fosters a community in the classroom where everyone feels accepted and valued despite their differences. Thirdly, the impression of sincerity: Third, they believe that the CRP approach to SEL education is sincere and honest. This implies that rather than a token gesture towards cultural sensitivity, the approach makes a sincere effort to include other viewpoints and methods of instruction (Norman, 2020; Waitoller & King Thorius, 2016). To ensure that their courses are culturally appropriate and relevant, educators utilising CRP strategies, such incorporating community-based practises or traditions, and actively seeking input and feedback from students and families. They are showing their pupils and their families that they value cultural diversity and are open to learning new things.

Culturally responsive teaching (CRT) is a method that takes into account and responds to the wide range of cultural backgrounds that its pupils represent. Students' cultural and linguistic origins affect how they study and interact with the material; CRT acknowledges this. Learning relies heavily on the brain, thus it's important to get insight into how the brain processes information in order to implement culturally sensitive pedagogy. Teachers can make classrooms more welcoming and productive for all kids by drawing on neuroscience research. The use of multimodal training is one way in which the brain may guide CRT. This entails making use of many modalities, such as visual, aural, and kinesthetic, to communicate the same content (Lindo, 2020; Sleeter, 2012). For children who learn best via seeing, a teacher could incorporate visual aids like diagrams, films, and photographs into the classroom, while simultaneously providing kinesthetic exercises for students who learn best through doing. Providing pupils with opportunity to make connections between new material and their prior knowledge and experiences is also important because of CRT and the brain.

Schema building is a technique that can help pupils remember details and draw links between ideas. Teachers can encourage students to make connections and acquire a deeper grasp of a topic by having them share personal experiences or cultural traditions that are relevant to that topic. A more welcoming and safe school climate for kids of all backgrounds may be fostered by integrating culturally responsive instruction throughout subject areas. For instance, showing appreciation for and understanding of students' diverse cultural backgrounds may go a long way towards fostering a safe and accepting learning environment. Because of this, you may experience less of the tension and worry that interferes with your ability to learn. The necessity of a nurturing classroom setting is another link between CRT and brain function. Chronic stress has been shown to have detrimental effects on brain development and can have a severe impact on cognitive abilities including learning and memory. A less-stressful and more-focused classroom environment is beneficial to students' ability to study.

### 8. Culturally Responsive Pedagogy and Achievement Gap

Christian Using restorative justice methods is one way to make a school more welcoming and safe for all students. Instead than penalising pupils for bad behaviour, restorative justice focuses on mending the damage they've caused and mending broken relationships. Teachers may make the classroom a more welcoming and safe place for all students by using restorative practises to resolve disagreements. Teaching with cultural sensitivity also takes into account how students' personal, social, and historical experiences shape their knowledge and development (Dixson, 2021; Sleeter, 2011). Teaching approaches that are more inclusive and attentive to students' needs can be informed, for instance, by understanding how students' experiences vary depending on their ethnicity, gender, and other social identities.

A more equal classroom setting can be achieved by analysing the role that implicit biases and assumptions play in the teaching materials and methods used. Recognizing and appreciating the wide range of cultural backgrounds and life experiences that students bring to the classroom is central to culturally responsive teaching (CRT). It's an ethics-and-care-based strategy for urban schools that prioritises making learning accessible, interesting, and rewarding for all students, but especially those from underserved backgrounds. In this paper, we will look at what CRT is, how it works, and how it may be used in an urban setting. CRT is based on the idea that students' experiences, beliefs, and methods of learning are shaped by their cultural and linguistic origins. Building trusting, respectful, and empathetic connections with kids, families, and communities is, thus, the first step in adopting CRT. To do so, teachers must provide a safe space in the classroom where students feel comfortable sharing their own experiences and viewpoints on a wide range of topics. A teacher may introduce a unit on American history by having students write about their own family's immigrant experience and explaining how it fits into the bigger picture. In doing so, the instructor not only lends credence to the students' personal narratives, but also helps them make connections between classroom material and their own cultural backgrounds. Using resources and methods that are appropriate for the target culture is also crucial in culturally responsive teaching (CRT). This entails using texts, visuals, and other materials that are culturally and linguistically relevant to students and that encourage students to draw connections between what they learn and their own lives and interests (Copeland Solas & Kamalodeen, 2022; Kozleski & Thorius, 2014). Teachers may do this in a variety of ways, including including literature, music, and art that represent the cultural traditions of their pupils, such as those of Black Americans and Latinxs.

Culturally sensitive practises like cooperative learning, problem-based learning, and inquiry-based learning may also be used in the classroom. These strategies take into account the fact that students from a variety of backgrounds may have varying preferences and ways to learning, and that pupils get a deeper understanding of a topic when it is given a personal context. The ability to critically examine and question the social, cultural, and historical forces at work in the world is fostered by CRT as well. For this reason, it is important to instruct students in the identification and evaluation of their own and others' preconceptions, biases, and stereotyping. Educating for social justice also include helping students gain the knowledge, skills, and attitudes necessary to effect positive change in their communities. A teacher may have pupils do a critical examination of the media's portrayal of certain groups, such as immigrants or people of colour. As a result, a conversation on the role of media in perpetuating prejudices and stereotypes might ensue, and students can be inspired to create media that directly confronts these issues. Lastly, CRT stresses the value of community and family involvement in the classroom. For this reason, it is important to form relationships with local groups and families based on mutual respect and a commitment to the achievement of all students. Incorporating the wisdom and experience of families and communities into classroom practises and decision-making is another important aspect of this approach.

# 9. The Impact of Culturally Responsive Pedagogy on Student Learning Outcomes

A service-learning project that meets a community need might be designed by a teacher in collaboration with an existing community group. Students might do this by researching the area's background and culture, then collaborating with locals to pinpoint a problem and provide a workable solution. Not only does this encourage kids to think critically and creatively, but it also fosters a sense of belonging and participation in the larger community. CRT is a method of teaching in urban settings that is founded on ethics and caring, and which places a premium on appreciating and respecting each student's unique background and set of life experiences. Dr. Gloria Ladson-Billings established a pedagogical method called culturally relevant pedagogy (CRP) that places an emphasis on teachers knowing about and respecting their students' cultural backgrounds and languages. The goal of CRP is to make the classroom a welcoming and stimulating place for students of various backgrounds and experiences to learn. In this paper, we will examine the foundations of CRP and give some classroom applications.

CRP is based on the idea that education should take into consideration students' cultural origins and experiences since they have an impact on how they learn. The goal of CRP is to provide a learning environment where all students feel safe sharing their cultural identities and experiences, and where they are given many opportunity to make meaningful connections between their classroom work and their everyday lives and communities. Culturally relevant teaching materials and methods are an integral part of CRP. This involves using texts, visuals, and other materials that are inclusive of students' cultural backgrounds and language backgrounds and that encourage students to make personal connections to the material being studied. Teachers may do this in a variety of ways, including including literature, music, and art that represent the cultural traditions of their pupils, such as those of Black Americans and Latinxs. Developed by Geneva Gay, Culturally Responsive Teaching (CRT) accounts for the wide range of cultural backgrounds that students bring to the classroom. Its primary goal is to foster kids' academic success while simultaneously respecting and appreciating their diverse cultural origins. With this approach, concerns of fairness and inclusion are prioritised in the classroom with the belief that education may be used as a vehicle for social justice.

Learning, according to one of CRT's guiding concepts, is inherently cultural. This implies that students' worldviews and learning styles are influenced by their personal experiences and cultural origins. In order to foster a learning environment that is culturally responsive, teachers must first take the time to learn about their students' cultural origins. Teachers of pupils from many different backgrounds can benefit from using multicultural literature and encouraging their charges to do the same. By doing so, the teacher fosters a classroom climate that is inclusive of all students and encourages them to actively participate in learning by focusing on topics that are of personal interest. CRT also emphasises the value of establishing rapport between educators and their pupils. In classes with kids from a wide range of backgrounds, this may go a long way towards fostering an atmosphere of mutual respect and trust. It's not uncommon for teachers to make an effort to familiarise themselves with their pupils' cultural backgrounds in order to better accommodate their needs. Doing so demonstrates to students that they are valued as individuals with unique perspectives and experiences, and fosters an atmosphere where all voices are heard.

### 10. Preparing Teachers for Culturally Responsive Pedagogy: A Professional Development Approach

The incorporation of culturally relevant pedagogical strategies is also essential to CRT. The cultural variety of the classroom should be reflected in the teaching techniques used, and those approaches should be culturally relevant and interesting to the pupils. Rather of depending entirely on traditional lecture-style teaching methods, teachers today are increasingly



turning to other pedagogical strategies, such as the use of music, art, and storytelling. This helps students connect with the topic on a deeper level and shows the teacher cares about them as individuals outside the classroom. Lisa Delpit is a prominent educational theorist and author from the United States. Her works focus on the intersection between education and culture. Her book "Education in a Multicultural Society" is a classic in the subject of multicultural education, and it contains helpful advice for teachers who want to foster classrooms that are welcoming to children of various backgrounds.

The concept of "cultural capital" is important to Delpit's writings. An individual's cultural capital consists of their acquired wisdom, abilities, and experiences. Language, culture, religion, and ethics are all examples. Delpit argues that cultural capital may serve as both a great learning tool and an impediment for pupils whose cultural backgrounds are not adequately acknowledged or respected in the classroom. A student who grew up in a non-English speaking environment, for instance, may know a lot about that language and its culture. A student's chances of academic success may be diminished, however, if the classroom is not set up to take into account the student's cultural capital. The student may face consequences for failing to embrace the majority culture. Teachers can help alleviate this problem by putting a premium on students' unique cultural capital. This might be done through culturally relevant teaching practises that make use of students' past knowledge and experiences, or through directly introducing components of students' cultures into the curriculum.

Multicultural education, as proposed by James A. Banks, is a strategy for increasing students' exposure to and appreciation of different cultures. It acknowledges the value of cultural diversity and seeks to foster a classroom that is welcoming, supportive, and flexible for kids of all backgrounds. In this paper, we will analyse the multicultural education proposed by James A. Banks, focusing on its fundamental ideas and supporting them with concrete instances from modern society. The basic tenet of Banks' multicultural education concept is that all children deserve an equal opportunity to learn and grow from their school experiences. His approach relies on a number of crucial factors. The first is what we call "content integration," which means include people of different backgrounds in classroom discussions and activities. Literature and history classes, for instance, may study texts written from several points of view. The Knowledge Creation Process emphasises the concept that students should be taught to understand and respect the diversity of opinions within their classroom and that knowledge is generated via social interaction.

Third, a focus on reducing bias and increasing tolerance among pupils is included. It involves exposing kids to people from other cultural backgrounds and educating them on the perils of bias. Fourth, equity pedagogy stresses the need of providing a welcoming and inclusive classroom for all students. Differentiated instruction, group study, and a plethora of other techniques are all part of this approach. Strengthening School Culture and Social Structure places an emphasis on developing a welcoming and accepting environment for students of all backgrounds. Among these include elevating students' voices, including parents and communities, and tackling issues of social justice on campus. Referring to Multicultural Education by James A. Banks, a social studies course that covers the topic of immigration is a practical example of content integration in the classroom. Instead of focusing just on American immigration, a teacher should incorporate the viewpoints of Asian, African, and Latin American immigrants. it's common practise in language arts classes to have students read and debate works of literature from a variety of cultures as part of the knowledgebuilding process. Students may also be invited to consider how they bring their own cultural lens to bear on readings. Third, a school might work to reduce prejudice by hosting a cultural fair or other events that highlight the unique backgrounds of its student body. Pupils might be prompted to discuss and learn from one another's cultural practises. Equity pedagogy: a teacher may employ a range of strategies, including visual aids, group work, and technology, to cater to a wide range of student learning styles.

#### 11. The Relationship between Culturally Responsive Pedagogy and Social Justice

The book Pedagogy of the Oppressed by Paulo Freire examines the interplay between oppressor and oppressed, as well as the role of education in this context. The book's 1968 release marked the beginning of its lasting impact in the realms of education and social justice. According to Freire, the status quo in education only serves to strengthen the imbalance of power between oppressed and oppressor. The instructor plays the role of oppressor and the pupils that of the oppressed in a conventional classroom. Students are expected to sit silently and learn what the instructor tells them while the teacher exerts all of the authority. This furthers the notion that knowledge is bestowed, rather than earned it cannot be earned via effort. A novel method of teaching is proposed by Freire; he calls it "problem-posing education." Using this method, the classroom becomes a two-way conversation between the instructor and the pupils. The role of the educator has shifted from imparting information to that of a guide who encourages pupils to learn via their own investigation and the sharing of their findings. The students are given more agency in their learning and are encouraged to question entrenched social hierarchies as a result of this method.

Freire's community organising programme in Brazil is an example of the "problem-posing education" technique. The programme hosted seminars where locals could come together and talk about things like healthcare, education, and housing that were affecting their everyday lives. The sessions encouraged audience participation so that locals may share their knowledge and expertise. The purpose was to provide community members with the knowledge and skills they needed to address the problems they had identified. The Highlander Research and Education Center in Tennessee is another institution using the "problem-posing education" approach. The Highlander Center was established in 1932 as a school for union organisers and civil rights advocates. Throughout the 1950s and 1960s, the centre hosted seminars that brought together civil rights advocates from all around the country. The goal of the seminars was to encourage participant participation and the sharing of prior knowledge and experience. The intention was to facilitate a community where members could share their knowledge and work together to effect positive social change. Critical pedagogy, an educational philosophy that stresses the significance of challenging power systems and social conventions, has also been impacted by Freire's views. By a process of critical enquiry, educators practising critical pedagogy hope to equip their students to become agents of social change.

Sonia Nieto is a well-known professor who has written extensively on the topic of intercultural education in the modern world. Nieto argues that today's heterogeneous society need a multicultural education framework for effective classroom instruction and student development. In this piece, we'll go into the ideas behind Sonia Nieto's push for intercultural education and look at some concrete case studies. Recognizing students' cultural variety, multicultural education seeks to increase their knowledge of, and respect for, a wide range of cultures. Multicultural education aims to address historical and present concerns of race, ethnicity, culture, language, religion, gender, and other social identities in order to promote social justice, equity, and inclusion. Sonia Nieto identifies four main components of intercultural education that teachers should take into account while crafting lessons.

One, Content Merging: To achieve this goal, the curriculum must incorporate a wide range of cultural viewpoints, experiences, and contributions. Students can get a deeper and more nuanced knowledge of other cultures via the study of literature, history, art, and music from other civilizations. Knowledge Creation, the second pillar, places an emphasis on questioning and deconstructing curriculum's Eurocentric or Western biases through in-depth analysis of these narratives as the source of all knowledge. It challenges pupils to look beyond what they've been taught and form their own opinions based on their research. Third, equity pedagogy focuses on accommodating students from various backgrounds by tailoring lessons to their specific need. It involves making use of a wide range of methods, materials, and evaluations in the classroom that respect and celebrate the diversity of their students' cultural identities. The fourth tenet is eliminating prejudice, which entails working to change people's minds and alter their actions so that they are more accepting of others with different backgrounds.

Cultural Modeling, developed by anthropologist Enid Lee, examines the ways in which people's backgrounds shape their thoughts, feelings, and actions. Lee defines cultural modelling as the method through which people absorb and integrate their culture's norms, values, and customs. In this post, I will discuss cultural modelling and give some instances to highlight its importance. The process of cultural modelling is intricate and multidimensional, including several variables. Socialization, or the process through which people absorb the rules and values of their culture, is an essential part of cultural modelling. Family, friends, classmates, and the media as well as formal and informal educational settings all have a role in a person's social development. A youngster raised in a collectivistic culture, like Japan's, may be taught to put the needs of the group ahead of their own. Family rituals, school lessons, and friendships amongst peers are all possible avenues for the perpetuation of this cultural norm. As a result, the kid can grow up thinking that getting along with others is more significant than being the best at everything. The passing on of customs and traditions from one generation to the next is also an essential part of cultural modelling.

The term "cultural reproduction" is commonly used to describe this phenomenon. Both formal schooling and informal, day-to-day contacts within a culture contribute to the continuation of that culture. A youngster growing up in a Native American culture, for instance, could learn about traditional customs and beliefs through formal and informal interactions with elders and other members of the group, such as participation in cultural events and rituals. The more exposure a youngster has to a culture, the more likely it is that the child will adopt its behaviours and beliefs as their own.

# 12. Theoretical Frameworks for Culturally Responsive Pedagogy

An excellent resource for teachers looking to foster a classroom that is welcoming to students of all backgrounds, "Culturally Responsive Teaching and the Brain" by Zaretta Hammond is a welcome addition to the profession. The basic premise of Hammond's methodology is that students' academic and social-emotional requirements may be met via the development of culturally sensitive teaching techniques. Hammond's research focuses on three primary areas: the significance of knowing about how the brain learns, how culture influences learning, and how teachers may implement culturally responsive practises in the classroom. In this post, I'll go into further depth about each of them, demonstrating how some teachers have successfully used Hammond's strategy in their own classes.

According to Hammond's research, successful education must take into account the way the brain learns. She claims that learning takes place when new information is linked to one's existing body of knowledge and experience. Teachers need to facilitate students' ability to do so by constructing classes and activities with high personal relevance and significance. Critical Multicultural Education (CME), developed by Christine Sleeter, is a pedagogical framework that promotes cultural awareness and understanding among students. CME aims to equip students with the knowledge and skills necessary to evaluate and oppose patterns of injustice and oppression, as well as to foster an awareness for the many cultures and viewpoints that make up our society. In this paper, I'll discuss the possible benefits of CME in the classroom and give some concrete examples of how to apply it. CME places a premium on appreciating students' wide range of experiences and perspectives. Teachers that take this stance make it a priority to learn about their students' backgrounds and customs so that they may foster a learning atmosphere that is accepting of all pupils. Teachers may start the school year off on the right foot by incorporating culturally relevant resources into their courses, such as having students share tales or artefacts from their culture at the beginning of the year. The instructor shows they care about their pupils' individuality and variety by doing this.

The use of critical pedagogy, in which students are prompted to question and critically examine the social, political, and economic forces that affect their lives, is also central to CME. This strategy encourages students to question their own worldviews and the information they take at face value from the media, their friends, and other sources. Teachers may encourage students to think critically about how institutional racism and sexism affect their own lives and communities by using news articles and video clips in the classroom. Students who engage in this kind of study get a greater grasp of the dynamics of power and privilege in our society and are better able to fight for equality and fair treatment for everyone. Thirdly,



CME emphasises culturally sensitive teaching approaches that help students from all walks of life succeed in the classroom. Cooperative learning groups and peer mentorship are two strategies teachers may use to help children who are new to English, have special needs, come from low-income families, or have experienced homelessness. Teachers may help close the achievement gap and make their classrooms more inclusive by adapting their lessons to their students' backgrounds and interests.

## 13. Best Practices for Implementing Culturally Responsive Pedagogy in Schools and Classrooms

The value of continuing education for educators is emphasised. Instructors that follow this philosophy are urged to constantly evaluate their own practises and do more research and study in order to better meet the requirements of their pupils. The Skin That We Speak: Reflections on Language and Culture in the Classroom is a collection of articles edited by Lisa D. Delpit and Joanne Kilgour Dowdy that investigates the relationship between language and culture in the classroom. The authors believe that teachers should respect and learn from their students' linguistic and cultural differences if they want their students to succeed in school. This paper will summarise the fundamental claims made in the book and provide specific examples to demonstrate these claims. Language, according to The Skin That We Speak, is a potent means of expression and self-definition. The authors contend that mainstream classes frequently disregard or devalue students' cultural origins and language practises, which can contribute to feelings of alienation and disengagement. Although though it is a real and sophisticated language system with its own norms and structures, African American Vernacular English (AAVE) is often stigmatised and disregarded as "incorrect" or "uneducated" in the classroom, as Delpit points out. Teachers who fail to appreciate the significance and diversity of AAVE may push their African American pupils away from the classroom.

Effective classroom management and culturally sensitive instruction are two cornerstones of quality education. The term "classroom management" is used to describe the methods employed by educators to foster an atmosphere conducive to learning. Teaching that is culturally sensitive, on the other hand, takes into account and values students' diverse cultural identities, experiences, and viewpoints. In this essay, we'll look at how culturally responsive education and traditional classroom management may work together to benefit students' education. Both effective classroom management and culturally sensitive instruction share a commitment to providing a welcoming and safe space for students to study. Predictability and stability may be fostered in the classroom through the use of effective management practises, such as the establishment of clear expectations and procedures. Having a stable and secure classroom atmosphere can be especially helpful for adolescents who are also suffering with stress or trauma outside of school. In contrast, culturally responsive education places premium on cultivating a learning space where students of all cultural origins are valued and respected.

Teachers may promote a more pleasant and supportive classroom atmosphere by designing an environment that is sensitive to the cultural backgrounds of its pupils. Using restorative justice methods is one way to combine effective classroom management with culturally sensitive instruction. Instead than penalising pupils for bad behaviour, restorative justice seeks to restore the damage they've caused and mend broken relationships. Teachers may foster a more collaborative and supportive learning community by implementing restorative justice methods, which also assist students learn to accept responsibility for their own acts. When paired with other culturally responsive tactics, such as student-centered learning and the use of authentic cultural artefacts, this method may be quite powerful. If two students are having problems getting along, a teacher may facilitate a restorative justice circle to help them work things out, and then utilise literature or history that reflects the students' cultures to help them better understand the dispute. Positive behaviour supports are another strategy for combining culturally sensitive instruction with effective classroom management. Positive behaviour supports are methods and tools used to reinforce desirable actions and discourage or correct undesirable ones. Teachers may make their classrooms better places to study by including positive behaviour supports into their daily routines. Incorporating student voice and choice into the curriculum and employing other culturally sensitive teaching practises can increase the efficacy of positive behaviour supports.

### 14. Conclusion

The UDL framework is a way of thinking about education that prioritises adaptability and inclusion for all students. It acknowledges that students come from a wide range of academic and socioeconomic backgrounds, and that teachers need to be able to tailor their lessons to their students' individual needs. Conversely, Culturally Responsive Teaching (CRT) is a method that aims to include students' cultural backgrounds and experiences into the learning process, valuing and recognising the cultural variety of pupils. Both Universal Design for Learning and Critical Race Theory aim to make classrooms more welcoming to students of all backgrounds. These methods take into account the fact that pupils come from various cultural and socioeconomic backgrounds. In a UDL classroom, for instance, students may be offered a variety of media (text, photos, videos) to learn the same material. Students in a CRT classroom may be more open to discussing their backgrounds and worldviews with their peers, which can benefit everyone's education. Teachers may create a more welcoming and productive learning environment for all students by using these two strategies. Using materials and resources that are sensitive to students' cultural backgrounds is one strategy to bridge the gap between UDL and CRT. In a history lesson, for instance, the instructor may decide to utilise a book that not only conveys the dominant narrative but also contains narratives from underrepresented groups.

The instructor of a science class could employ culturally diverse case studies to demonstrate scientific principles. Teachers can better engage their pupils with the information at hand if they make use of resources that are culturally sensitive to the needs of their students. Differentiated teaching is another another bridge between universal design for learning and cognitive remediation techniques. Teachers in a UDL classroom have more leeway in how they present material to students. Teachers in a CRT setting have more leeway to tailor their lessons to the cultural backgrounds of their students. Using money or food from other cultures as examples to illustrate

mathematical principles is one way to make the subject more accessible to students from a wide range of cultural backgrounds in a classroom setting. The use of UDL and CRTinformed differentiated teaching can help instructors give all kids the same opportunities to learn. Technology is a third means through which UDL and CRT might be linked. Many strategies for representation, expression, and participation can be facilitated by technological tools in a universal design for learning classroom.

Students from various cultural origins can be brought together in a CRT classroom via the use of technology. Students might, for instance, use video conferencing to communicate with peers in distant regions of the world and gain insight into other cultures. Teachers may contribute to a more diverse and inclusive classroom by utilising UDL and CRT-informed technology. In conclusion, both UDL and CRT aim to foster a welcoming classroom for students with varying backgrounds and perspectives. Teachers may make their classrooms more welcoming to students of all backgrounds and abilities by combining the two pedagogical techniques. Teachers may assist ensure that all students have equitable access to the curriculum and that their unique origins and experiences are honoured via the use of culturally responsive materials and resources, individualised teaching, and technology.

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#### References

- Adams, R., & Farnsworth, M. (2020). Culturally responsive teacher education for rural and native communities. *Multicultural Perspectives*, 22(2), 84-90.
- Alim, H. S., & Paris, D. (2017). What is culturally sustaining pedagogy and why does it matter. Culturally sustaining pedagogies: Teaching
  and learning for justice in a changing world, 1, 24.
- Arvanitis, E. (2018). Culturally responsive pedagogy: modeling teachers' professional learning to advance plurilingualism. Handbook of research and practice in beritage language education, 245-262.
- Austin, D. W., Atencio, M., Yeung, F., Stein, J., Mathur, D., Ivester, S., & Woods, D. R. (2019). Diversity and Inclusion Curriculum: Addressing Culturally Relevant Pedagogy and the Achievement Gap at a Racially Diverse University. *Currents in Teaching & Learning*, 11(1).
- Blackshear, T. B., & Culp, B. (2021). Transforming PETE's initial standards: Ensuring social justice for Black students in physical education. *Quest*, 73(1), 22-44.
- Borrero, N. E., Flores, E., & de la Cruz, G. (2016). Developing and enacting culturally relevant pedagogy: Voices of new teachers of color. *Equity & Excellence in Education*, 49(1), 27-40.
- Bucciarelli, N. (2014). Teaching for Social Justice: Culturally Responsive and Relevant Pedagogy in Urban Schools.
- Bunyamin, M. A. H., & Isa, I. M. M. (2022). Culturally Responsive Pedagogy, STEM, and Gender Equity: Tackling Key Issues and Advancing the Research Field. In *Culturally Responsive Science Pedagogy in Asia* (pp. 115-128): Routledge.
- Butler, M. B., Atwater, M. M., & Russell, M. L. (2014). Introduction: culture, equity, and social justice for science teacher educators. *Multicultural Science Education: Preparing teachers for equity and social justice*, 1-7.
- Buzzetto-Hollywood, N. (2023). Decolonization and Culturally Responsive Teaching Practices and the Role of Historically Black Colleges and Universities. *Journal of Education and Human Development, 12*(1), 1-15.
- Cavazos, A. G., Trejo, C., Cavazos-Vela, J., Garza-Ochoa, S., Marin, Y., & Racelis, A. (2022). Teaching Philosophy Statements: The Impact of a Culturally Relevant Pedagogy Faculty Learning Community at a Hispanic Serving Institution. *Journal of Latinos and Education*, 1-16.
- Chang, W.-C., & Cochran-Smith, M. (2022). Learning to teach for equity, social justice, and/or diversity: Do the measures measure up? *Journal of Teacher Education*, 00224871221075284.
- Chase, E. (2019). Teacher Candidates and Culturally Relevant Pedagogy: Mapping the Terrain of Knowledge, Experience, and Further Action. Ubiquitous Learning: An International Journal, 12(2).



- Codding, D., Alkhateeb, B., Mouza, C., & Pollock, L. (2021). From professional development to pedagogy: Examining how Computer Science teachers conceptualize and apply culturally responsive pedagogy. *Journal of Technology and Teacher Education, 29*(4), 497-532.
- Copeland Solas, E., & Kamalodeen, V. (2022). Culturally Relevant Pedagogies (CRP) and Culturally Responsive Teaching (CRT) in Science Education: Black Success Stories in Ontario. *Canadian Journal of Science, Mathematics and Technology Education, 22*(4), 796-817.
- Davy, E. L. (2016). Culturally responsive leadership: How principals employ culturally responsive leadership to shape the school experiences of marginalized students: University of Toronto (Canada).
- Delk, D. W., Vaughn, M., & Hodge, S. R. (2022). Social justice research in physical education teacher education: Contextualized in the United States. *Journal of Teaching in Physical Education*, 41(2), 260-269.
- Dixson, A. D. (2021). But be ye doers of the word: Moving beyond performative professional development on culturally relevant pedagogy. Paper presented at the The Educational Forum.
- Dover, A. G. (2013). Teaching for social justice: From conceptual frameworks to classroom practices. *Multicultural Perspectives*, 15(1), 3-11.
- Evans, L. M., Turner, C. R., & Allen, K. R. (2020). "Good Teachers" with "Good Intentions": Misappropriations of Culturally Responsive Pedagogy. *Journal of Urban Learning, Teaching, and Research, 15*(1), 51-73.
- Fabionar, J. O. (2020). Responding to the Moment. Teacher Education Quarterly, 47(3), 145-150.
- Freire, J. A., & Valdez, V. E. (2017). Dual language teachers' stated barriers to implementation of culturally relevant pedagogy. *Bilingual Research Journal*, 40(1), 55-69.
- Galloway, M. K., Callin, P., James, S., Vimegnon, H., & McCall, L. (2019). Culturally responsive, antiracist, or anti-oppressive? How language matters for school change efforts. *Equity & Excellence in Education*, 52(4), 485-501.
- Garces-Bacsal, R. M., & Elhoweris, H. (2022). Decentering Whiteness in gifted education: Addressing the needs of the gifted "others" through social justice and culturally responsive pedagogies. *Gifted Child Quarterly*, 66(2), 121-123.
- Gilpin, S., Clinton-Lisell, V., Legerski, E., & Rhodes, B. (2022). Designing and using online discussions to promote social justice and equity. In *Teaching and learning for social justice and equity in higher education* (pp. 15-43): Springer.
- Gist, C., Jackson, I., Nightengale-Lee, B., & Allen, K. (2019). Culturally responsive pedagogy in teacher education. In Oxford research encyclopedia of education.
- Guo-Brennan, L., & Guo-Brennan, M. (2020). Global citizenship education and social justice for immigrant students: Implications
  for administration, leadership, and teaching in schools. *Handbook on promoting social justice in education*, 2203-2222.
- Hale, K. M. (2023). Transforming STEM Education and Empowering STEM Educators Through Collaborative Learning: Cocreating Critical Identities through Social Justice and Culturally Sustaining Pedagogies.
- Halim, L., Ramli, M., & Ali, M. N. (2022). Culturally Responsive Science Pedagogy in Asia: Status and Challenges for Malaysia, Indonesia and Japan.
- Hanesworth, P., Bracken, S., & Elkington, S. (2019). A typology for a social justice approach to assessment: learning from universal design and culturally sustaining pedagogy. *Teaching in Higher Education*, 24(1), 98-114.
- Harkins Monaco, E. A., Brusnahan, L. S., & Fuller, M. (2023). Guidance for the antiracist educator: Culturally sustaining pedagogies for disability and diversity. *Teaching Exceptional Children*, 55(5), 296-299.
- Heringer, R. (2019). The Pertinence of a Culturally Relevant Pedagogy in Internationalized Higher Education. *International Education Studies*, 12(1), 1-9.
- Howard, C., Overstreet, M., & Ticknor, A. S. (2018). Engaging Preservice Teachers with Culturally Responsive Pedagogy: Three Model Lessons for Teacher Educators. *Journal of Language and Literacy Education*, 14(2), n2.
- Howard, T. C. (2003). Culturally relevant pedagogy: Ingredients for critical teacher reflection. *Theory into practice*, 42(3), 195-202.
- Hutchison, L. F., & White, C. S. (2020). Integrating culturally responsive and social justice pedagogy: A case study of an online doctorate of education degree program for instructional and professional leadership. *Journal of Higher Education Theory and Practice, 20*(2), 143-150.
- Johnson, L. (2014). Culturally responsive leadership for community empowerment. Multicultural Education Review, 6(2), 145-170.
- Johnson, L., & Fuller, C. (2014). Culturally responsive leadership: Oxford University Press New York.
- Kaur, B. (2012). Equity and social justice in teaching and teacher education. *Teaching and Teacher Education, 28*(4), 485-492.
- Kelly, M., & Fields, C. W. (2020). Unlocking the Doors: Opening Spaces for Inclusive Pedagogy–The Implementation of Culturally Sustaining Pedagogy+ in Teacher Education. In *Integrating Social Justice Education in Teacher Preparation Programs* (pp. 1-28): IGI Global.
- Khalifa, M. A., Gooden, M. A., & Davis, J. E. (2016). Culturally responsive school leadership: A synthesis of the literature. *Review of educational research*, 86(4), 1272-1311.
- Kondo, C. S. (2022). Walking the talk: Employing culturally relevant pedagogy in teacher education. *Teachers College Record*, 124(4), 65-94.
- Kozleski, E. B., & Thorius, K. K. (2014). Ability, equity, and culture: Sustaining inclusive urban education reform: Teachers College Press.
- Ladson-Billings, G. (1995). Toward a theory of culturally relevant pedagogy. American educational research journal, 32(3), 465-491.

- Lalas, J. W., & Strikwerda, H. L. (2020). Driving equity in action through a socially and culturally situated pedagogy: Culturally relevant teaching and learning as a form of equity toward student engagement. In Overcoming current challenges in the P-12 teaching profession (pp. 291-315): IGI Global.
- Lin, K. (2022). Cs education for the socially-just worlds we need: The case for justice-centered approaches to cs in higher education. Paper presented at the Proceedings of the 53rd ACM Technical Symposium on Computer Science Education-Volume 1.
- Lindo, E. J. (2020). Committed to advancing cultural competence and culturally sustaining pedagogy. *Teaching Exceptional Children*, 53(1), 10-11.
- Lopez, A. E. (2011). Culturally relevant pedagogy and critical literacy in diverse English classrooms: A case study of a secondary English teacher's activism and agency. *English teaching: Practice and critique, 10*(4), 75-93.
- Lopez, A. E. (2015). Navigating cultural borders in diverse contexts: Building capacity through culturally responsive leadership and critical praxis. *Multicultural Education Review*, 7(3), 171-184.
- Lopez, A. E., & Lopez, A. E. (2016). Toward a theory of culturally responsive and social justice leadership. Culturally Responsive and Socially Just Leadership in Diverse Contexts: From Theory to Action, 15-31.
- Madkins, T. C., & Howard, N. R. (2023). Engaging Culturally Relevant and Responsive Pedagogies in Computer Science Classrooms. *Computer Science Education: Perspectives on Teaching and Learning in School*, 101.
- Madkins, T. C., Howard, N. R., & Freed, N. (2020). Engaging equity pedagogies in computer science learning environments. *Journal of Computer Science Integration*, 3(2).
- Madkins, T. C., Martin, A., Ryoo, J., Scott, K. A., Goode, J., Scott, A., & McAlear, F. (2019). Culturally relevant computer science pedagogy: From theory to practice. Paper presented at the 2019 research on equity and sustained participation in engineering, computing, and technology (RESPECT).
- McIntosh, N., & Nenonene, R. L. (2022). Developing Culturally Responsive Anti-racist Activists. In Reconceptualizing Social Justice in Teacher Education: Moving to Anti-racist Pedagogy (pp. 215-230): Springer.
- Michalec, P., & Wilson, J. L. (2022). Truth hidden in plain sight: How social–emotional learning empowers novice teachers' culturally responsive pedagogy in Title I schools. *Journal of Education*, 202(4), 496-506.
- Min, M., Lee, H., Hodge, C., & Croxton, N. (2022). What empowers teachers to become social justice-oriented change agents? Influential factors on teacher agency toward culturally responsive teaching. *Education and Urban Society*, 54(5), 560-584.
- Morrison, A., Rigney, L.-I., Hattam, R., & Diplock, A. (2019). Toward an Australian culturally responsive pedagogy: A narrative review of the literature: University of South Australia.
- Murray, C. (2021). Educating from difference: Perspectives on Black cultural art educators' experiences with culturally responsive teaching. *Canadian Journal of History*, 56(3), 353-380.
- Nolan, K., & Keazer, L. M. (2021). Developing as culturally responsive mathematics teacher educators: Reviewing and framing
  perspectives in the research.
- Norman, T. R. (2020). Creating inclusive classrooms through culturally responsive pedagogy: Rowan University.
- Palmer, E. S., Vodicka, J., Huynh, T., D'Alexander, C., & Crawford, L. (2022). Grounded framework for culturally relevant and responsive music teaching. Update: Applications of Research in Music Education, 41(1), 24-33.
- Parhar, N., & Sensoy, O. (2011). Culturally relevant pedagogy redux: Canadian teachers' conceptions of their work and its challenges. *Canadian Journal of Education*, 34(2), 189-218.
- Paris, D. (2012). Culturally sustaining pedagogy: A needed change in stance, terminology, and practice. *Educational researcher*, 41(3), 93-97.
- Paris, D. (2017). On Educating Culturally Sustaining Teachers. Equity by Design. Equity Assistance Center Region III, Midwest and Plains Equity Assistance Center.
- Paris, D., & Alim, H. S. (2017). Culturally sustaining pedagogies: Teaching and learning for justice in a changing world: Teachers College Press.
- Parkhouse, H., Gorlewski, J., Senechal, J., & Lu, C. Y. (2021). Ripple effects: How teacher action research on culturally relevant education can promote systemic change. *Action in Teacher Education*, 43(4), 411-429.
- Phuntsog, N. (1999). The magic of culturally responsive pedagogy: In search of the genie's lamp in multicultural education. *Teacher Education Quarterly*, 97-111.
- Poole, A. H., Agosto, D., Greenberg, J., Lin, X., & Yan, E. (2021). Where do we stand? Diversity, equity, inclusion, and social justice in North American library and information science education. *Journal of Education for Library and Information Science*, 62(3), 258-286.
- Pradhan, N. (2015). Culturally relevant pedagogy: Towards equity and inclusivity in schools. *Pedagogy of Learning*, 1(4), 1-14.
- Price, D., Green, D., Memon, N., & Chown, D. (2020). Richness of complexity within diversity: Educational engagement and achievement of diverse learners through culturally responsive pedagogies. *TheSocial Educator, 38*(1), 42-53.
- Rall, R. M., Morgan, D. L., & Commodore, F. (2020). Toward culturally sustaining governance in higher education: Best practices of theory, research, and practice. *Journal of Education Human Resources, 38*(1), 139-164.
- Ramlackhan, K. (2020). Restricting social justice practices in public education: The neoliberal stronghold. Handbook on promoting social justice in education, 193-212.
- Ramlackhan, K., & Catania, N. (2022). Fostering creativity, equity, and inclusion through social justice praxis. *Power and Education*, 14(3), 282-295.

- Robinson, G. C., Toliver-Smith, A., & Stigar, L. V. (2023). Teaching Queer Concepts to Graduate Students in Communication Sciences and Disorders: Culturally Responsive Pedagogy to Foster Affirmative Clinical Practice. Paper presented at the Seminars in Speech and Language.
- Saint-Hilaire, L. A. (2014). So, how do I teach them? Understanding multicultural education and culturally relevant pedagogy. *Reflective practice*, 15(5), 592-602.
- Salter, G. (2000). Culturally responsive pedagogy and the renaissance of a Maori dimension in physical education: Te reo kori as cultural taonga. New Zealand Physical Educator, 33(2), 42.
- Samuels, A. J. (2018). Exploring Culturally Responsive Pedagogy: Teachers' Perspectives on Fostering Equitable and Inclusive Classrooms. Srate Journal, 27(1), 22-30.
- Sanders Johnson, S. (2021). Embracing Culturally Relevant Pedagogy to Engage Students in Chemistry: Celebrating Black Women in the Whiskey and Spirits Industry. *Journal of Chemical Education*, 99(1), 428-434.
- Sandoval, C. P. (2016). The remix of culturally relevant pedagogy: pertinence, possibilities, and adaptations for the Chilean context. *Perspectiva educacional*, 56(1), 109-126.
- Shields, C. M., & Hesbol, K. A. (2020). Transformative leadership approaches to inclusion, equity, and social justice. *Journal of School Leadership*, 30(1), 3-22.
- Shmulsky, S., Gobbo, K., & Vitt, S. (2022). Culturally Relevant Pedagogy for Neurodiversity. *Community College Journal of Research and Practice*, 46(9), 681-685.
- Sleeter, C. E. (2011). An agenda to strengthen culturally responsive pedagogy. *English teaching: Practice and critique, 10*(2), 7-23.
- Sleeter, C. E. (2012). Confronting the marginalization of culturally responsive pedagogy. Urban education, 47(3), 562-584.
- Spalding, E., Klecka, C. L., Lin, E., Odell, S. J., & Wang, J. (2010). Social justice and teacher education: A hammer, a bell, and a song. In (Vol. 61, pp. 191-196): Sage Publications Sage CA: Los Angeles, CA.
- Subagyo, M. (2022). Evolving Perspectives in Education: From Culturally Relevant Pedagogy to Culturally Sustaining Pedagogy. Evolving Perspectives in Education: From Culturally Relevant Pedagogy to Culturally Sustaining Pedagogy (November 11, 2022).
- Subero, D., Vila, I., & Esteban-Guitart, M. (2015). Some Contemporary Forms of the Funds of Knowledge Approach. Developing Culturally Responsive Pedagogy for Social Justice. *International Journal of Educational Psychology*, 4(1), 33-53.
- Taylor, S. V., & Sobel, D. M. (2011). Culturally responsive pedagogy: Teaching like our students' lives matter (Vol. 4): Brill.
- Thomas, C. A., & Berry III, R. Q. (2019). A qualitative metasynthesis of culturally relevant pedagogy & culturally responsive teaching: Unpacking mathematics teaching practices. *Journal of Mathematics Education at Teachers College*, 10(1), 21-30.
- Vale, C., Atweh, B., Averill, R., & Skourdoumbis, A. (2016). Equity, social justice and ethics in mathematics education. Research in Mathematics Education in Australasia 2012-2015, 97-118.
- Waitoller, F. R., & King Thorius, K. A. (2016). Cross-pollinating culturally sustaining pedagogy and universal design for learning: Toward an inclusive pedagogy that accounts for dis/ability. *Harvard Educational Review*, 86(3), 366-389.
- Walker, A. (2019). Culturally relevant pedagogy, identity, presence, and intentionality: A brief review of literature. *Journal of Research Initiatives*, 4(3), 11.
- Whitaker, M. C., & Valtierra, K. M. (2018). The dispositions for culturally responsive pedagogy scale. *Journal for Multicultural Education*, 12(1), 10-24.
- Wilcoxen, C. L., Steiner, A. L., & Bell, J. (2021). Strengthening Preservice Teachers' Understanding of Culturally Responsive Classrooms Through Exposure, Immersion, and Dialogue. *Journal of Community Engagement & Scholarship*, 14(1).
- Wlodkowski, R. J., & Ginsberg, M. B. (1995). Diversity & Motivation: Culturally Responsive Teaching. Jossey-Bass Higher and Adult Education Series. Jossey-Bass Education Series, Jossey-Bass Social and Behavioral Science Series: ERIC.

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