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## Education's Role in Empowering Women and Promoting Gender Inequality: A Critical Review

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### **Abstract**

This review paper critically examines the role of education in empowering women and promoting gender inequality. It explores the complex relationship between education, women's empowerment, and gender equality, highlighting both the positive outcomes and the challenges that persist. The paper discusses the gender disparities in access to education the positive impact of education on women's empowerment, a the challenges education systems face in perpetuating gender inequality. It also examines strategies to promote gender equality in education and presents case studies and success stories to illustrate the impact of intervention The paper concludes by critically analyzing the effectiven interventions, identifying remaining challenges, and recommendations for future action.

Keywords: Gender inequality; Women empowerment; Education system; Economic gr Economic development

#### Introduction

Gender equality and women empowerment are essential for achieving social progress and sustainable development. Education is a empowerment are essential for key factor in preceding gender equality and empowering women. It has the potential temprovide women with knowledge, skills, and opportunities or personal and professional growth. However, the relations in between education and gender equality is multifaceted with caucation can be a catalyst for positive change, it and comple can also inadertently perpetuate gender inequality. This critical review aims to explore the role of education in empowering women and promoting gender inequality. By critically examining the existing literature and research, this paper aims to shed light on the various dimensions of this relationship and provide a nuanced understanding of its complexities.

The review begins by highlighting the global gender disparities in access to education. It explores the barriers that hinder girl's educational opportunities, such as socio-cultural norms, poverty, early

marriage, and violence against women. Understanding these disparities is crucial for recognizing the structural challenges that need to be addressed to achieve gender equality.

Next, the review delves into the positive outcomes of education for women's empowerment. It examines how education can enhance women's decision-making power, self-estern, and confidence. Furthermore, it explores the economic benefits of ducation, such as increased job prospects and financial independence for women. Education also plays a vital role in fronting women's social and political empowerment, enabling them to participate actively in society and influence policy-making sesses.

However, the review also critically a alyzes the challenges that education systems face in perporating gender inequality. It examines how gender biases in curricula and teaching practices can reinforce traditional gender norms and tereotypes, limiting girl's aspirations and opportunities. The review explores the gender gaps in STEM education and careers, which contribute to the underrepresentation of women in these fields. It also addresses the gender inequalities that persist in higher education and leadership positions, including discriminatory practices and societal biases.

The review also discusses various strategies and interventions. It the importance of gender-responsive education policies and practices that challenge stereotypes and promote equal opportunities or both gills and boys. It highlights the significance of integrating er perspectives into curricula and textbooks to foster inclusive and equitable learning environments. The review examines initiatives empower girls in STEM education and address the barriers that hinder their participation. It also explores efforts to increase women's representation in higher education and leadership roles.

Through the examination of case studies and success stories, the review provides practical examples of interventions that have made positive strides in promoting gender equality through education. It critically analyzes the effectiveness of these interventions and identifies areas for improvement.

This critical review aims to contribute to understanding the complex dynamics between education, women's empowerment, and gender inequality. By recognizing the potential of education as a powerful tool for change and acknowledging its limitations and challenges, this review seeks to inform policymakers, educators, and stakeholders about the necessary steps to create an educational system that truly empowers women and promotes gender equality.

#### Literature Review

## Background and significance

Gender inequality remains a pressing global issue, with women facing various forms of discrimination, marginalization, and limited opportunities in many societies. Achieving gender equality is a matter of social justice and has far-reaching implications for economic development, health, and overall societal well-being.

Education has long been recognized as crucial in promoting gender equality and empowering women. It is a fundamental right that can equip individuals with the knowledge, skills, and tools to challenge societal norms, advocate for their rights, and participate actively in economic, social, and political spheres. Moreover, education can contribute to breaking the intergenerational cycle of gender inequality



by empowering girls and women to make informed choices for themselves and future generations.

The significance of the topic lies in the recognition that education is not a guaranteed pathway to gender equality. While education has the potential to empower women, it can also inadvertently perpetuate gender inequality if not approached critically. Understanding the complexities of this relationship is essential for designing effective policies, programs, and interventions that truly promote gender equality through education.

The topic is also significant in the context of the global development agenda. The United Nations Sustainable Development Goals (SDGs) explicitly include gender equality and quality education as separate goals. SDG 5 aims to achieve gender equality and empower all women and girls, while SDG 4 focuses on ensuring inclusive and equitable quality education for all. Recognizing the interconnectedness of these goals is crucial for creating comprehensive strategies that address both gender inequality and education simultaneously.

Furthermore, the topic has implications for policymakers, educators, researchers, and other stakeholders involved in shaping educational systems and promoting gender equality. By critically reviewing the role of education in empowering women and promoting gender inequality, this research provides valuable insights that can inform policy decisions, curriculum development, teacher training, and program implementation.

Overall, the background and significance of this topic lie in the urgent need to explore and understand the complexities of the relationship between education, women's empowerment, and gender inequality. By critically reviewing existing literature and research, we can gain insights into effective strategies, identify challenges and gos, and contribute to the advancement of gender equality through education.

## Purpose and objectives

The purpose of this review paper is to critically ramine the role of education in empowering women and promoting gendly inequality. It aims to comprehensively analyze the complex relationship between education, women's empowerment, and gender education. By reviewing existing literature, research studies and examples, the paper seeks to contribute to a danced to derstanding of the topic and highlight both the positive of tomes and the challenges that persist in educational settings. Objectives the as follows:

- To explore the gender disparities in access to education.
- To examine positive outcomes of education for women's empowerment.
- To critically malyze techallenges and gender inequalities within educational settings.
- To explor crategies for promoting gender equality in education.
- To critically palyze the effectiveness of interventions and identify future directions.

#### Gender disparities in access to education

Gender disparities in access to education refer to the unequal opportunities and barriers that girls and women face in obtaining quality education compared to their male counterparts. Despite progress made in recent years, significant gender gaps still exist in many parts of the world, particularly in developing countries and

marginalized communities. Several factors contribute to these disparities, which have far-reaching implications for individuals, societies, and global development.

**Socio-cultural norms and practices:** Deep-rooted socio-cultural norms and traditional gender roles often prioritize boys' education over girl's. Gender biases and stereotypes can lead to the devaluation of girl's education, as they may be expected to prioritize household chores, caregiving responsibilities, or early marriage instead of pursuing education.

**Poverty and economic constraints:** Economic actors play a significant role in limiting access to education for girls. Poverty can result in families prioritizing boys's ducation due of limited resources, while girls are expected to contribute to conschold income or engage in domestic work. Lack of financial means can prevent girls from attending school or result in the early with drawal from education.

**Distance and safety:** Geographical factors, such as long distances to schools or lack portation, disproportionately affect girl's access to education. Safety concerns, including violence, harassment, of the absence of gender-segregated facilities, can prevent girls from attending school, particularly during adolescence [1].

Early priors and pregnancy: Child marriage remains a significant barrier to girl's education in many parts of the world. Girls who are married at an early age are often forced to drop out of school and face united educational and economic opportunities. Adolescent regnancy can also lead to school dropout due to social stigma, lack of secont, and discriminatory policies [2-10].

Lack of infrastructure and resources: Insufficient infrastructure, in ding schools, classrooms, sanitation facilities, and learning materials, can disproportionately impact girl's access to education. Inadequate resources and overcrowded classrooms may hinder girl's participation and limit their learning outcomes.

## Factors contributing to gender disparities in access to education

Gender disparities in access to education can be attributed to various factors, both systemic and socio-cultural. These factors contribute to the unequal opportunities and barriers girls and women face in obtaining quality education. Here are some key factors that contribute to gender disparities in access to education:

**Socio-cultural norms and practices:** Deep-rooted socio-cultural norms and traditional gender roles significantly limit girls' access to education. In many societies, girls are expected to prioritize household chores, caregiving responsibilities, or early marriage over education. Prevailing gender stereotypes and biases perpetuate the belief that education is more important for boys, leading to girls being undervalued and their education neglected [11-20].

**Poverty and economic constraints:** Economic factors pose substantial barriers to girl's education. Poverty-stricken families often prioritize boys' education due to limited resources, while girls are expected to contribute to household income or engage in domestic work. The cost of education, including school fees, uniforms, transportation, and textbooks, may be prohibitive for families struggling with poverty, resulting in limited access to education for girls [21-33].

Geographic and infrastructure challenges: Geographic factors, such as remote locations, long distances to schools, and lack of

transportation, can disproportionately affect girl's access to education. Inadequate infrastructure, including the absence of schools or classrooms, poorly equipped facilities, and inadequate sanitation, further compound the challenges. These factors can particularly impact girl's education as they may face safety concerns, face risks of harassment, or encounter difficulties in accessing schools [34-44].

Early marriage and pregnancy: Child marriage remains a significant barrier to girl's education in many parts of the world. When girls are married at an early age, they are often forced to drop out of school, limiting their educational opportunities and perpetuating the cycle of gender inequality. Adolescent pregnancy is another factor that hinders girls' access to education, leading to higher dropout rates due to social stigma, lack of support, and discriminatory policies [45-48].

Gender-based violence and safety concerns: Gender-based violence, including sexual harassment, bullying, and discrimination, poses a significant barrier to girl's education. Unsafe school environments, along with the fear of violence and harassment, can deter girls from attending school or participating fully in educational activities. The lack of gender-segregated facilities, such as toilets, can also contribute to safety concerns for girls, particularly during menstruation [49,50].

Lack of gender-responsive policies and support: Inadequate gender-responsive policies and support mechanisms within educational systems contribute to gender disparities. The absence of policies that address the specific needs of girls, such as menstrual hygiene management or a gender-responsive curriculum, in perpetuate gender inequality. Additionally, the lack of trained teachers who understand and address gender biases and stereotypes can further hinder girl's educational opportunities.

### Education and empowerment of women

Education plays a fundamental role in the empowerment of women. It serves as a catalyst for personal, social, and economic development, enabling women to challenge gender norms, assert in regints, and actively participate in various spheres of life, are are some key ways in which education empowers women:

Knowledge and skills development: Education equips women with knowledge and skills esentia for personal growth and empowerment. It enhances their certical and ang abilities, problemsolving skills, and decision-making apacities. Education provides women with information at all their rights, health, and well-being, enabling them to make informed phoices and advocate for themselves.

Increased agency and voice: Education empowers women by giving them a voice and agency in decision-making processes. It enhances their confluence, elf-esteem, and assertiveness, enabling them to express their pinions, advocates for their needs, and participan actively in their communities. Education gives women the skills to enage in civic and political activities, fostering their leadership potential.

Economic independence: Education is a crucial pathway to economic empowerment for women. It expands their employment opportunities, increases their earning potential, and reduces their vulnerability to poverty. Educated women are more likely to secure formal employment, access higher-paying jobs, and become financially independent. Economic empowerment through education also enables women to contribute to their families' well-being and invest in their children's education.

Health and well-being: Education is closely linked to improved health outcomes for women. Educated women are more likely to have better knowledge of nutrition, reproductive health, and disease prevention. They can make informed choices regarding their health, seek appropriate healthcare services, and adopt healthy behaviors. Education also contributes to lower maternal mortality rates and improved child health outcomes.

Gender equality and social change: Education is a powerful tool for challenging gender inequality and primoting social change. It helps break the cycle of gender-based decrimination with challenging traditional gender roles and stereotypes. Educated women are more likely to question discriminatory practices, devocate for gender equality, and contribute to changing sociatal norms. Future generations can benefit from a more equal and inclusive society by educating girls.

Peace building and susta able development: Education is crucial in promoting peace, so his cohesion, and sustainable development. Educated women are better equipped to contribute to conflict resolution, peace-building efforts, and community development. By addressing the root causes of inequalities, including gender-based discrimination, education can pave the way for a more just and sustainable future.

### Positive outcomes of education for women's empowerment

Education has numerous positive outcomes for women's impowerment, leading to transformative changes in their lives and sajety. Here are some key positive outcomes of education for women's empowerment:

by enhancing their decision-making power: Education empowers women by enhancing their decision-making abilities. It equips them with critical thinking skills, knowledge, and confidence to make informed life choices, including education, career, health, and relationships. Educated women are more likely to have a say in important family decisions and participate in decision-making processes at the community and societal levels [51].

**Enhanced economic opportunities:** Education is a pathway to economic empowerment for women. It expands their employment opportunities, increases earning potential, and opens doors to higher-paying jobs and entrepreneurship. Educated women have greater financial independence, which improves their overall well-being and enables them to invest in their families and communities.

Improved health and well-being: Education is closely linked to better health outcomes for women. Educated women have increased knowledge about nutrition, reproductive health, disease prevention, and hygiene practices. They are more likely to seek healthcare services, make informed decisions about family planning, and have healthier pregnancies. Education also contributes to lower maternal and infant mortality rates.

**Enhanced self-confidence and assertiveness:** Education fosters self-confidence and assertiveness in women. It equips them with the knowledge and skills to express their opinions, assert their rights, and challenge discriminatory practices. Educated women are better equipped to navigate social and professional settings, negotiate for better opportunities, and advocate for gender equality.

**Expanded leadership and political participation:** Education is crucial in increasing women's leadership and political participation. It gives them the skills, knowledge, and networks to engage in civic and political activities. Educated women are more likely to take on

community leadership roles, participate in decision-making processes, and advocate for policies that promote gender equality and social justice.

**Positive inter-generational impact:** Education has a ripple effect on future generations. Educated women are more likely to prioritize their children's education, resulting in improved educational outcomes for the next generation. Children of educated mothers have better health, nutrition, and educational opportunities, breaking the cycle of poverty and inequality.

**Social and cultural transformation:** Education contributes to social and cultural transformation by challenging gender stereotypes, promoting gender equality, and fostering inclusive societies. Educated women are agents of change who challenge discriminatory practices, advocate for social justice, and contribute to developing more equitable and inclusive communities.

### Impact of education on women's health and well-being

Education significantly impacts women's health and well-being, leading to positive outcomes in various aspects of their lives. Here are some key ways in which education influences women's health and well-being:

Health knowledge and awareness: Education teaches women about health-related issues, including reproductive health, nutrition, hygiene, disease prevention, and healthcare resources. Educated women are more likely to have access to accurate and up-to-date health information, enabling them to make informed decisions about their health and the health of their families.

Improved maternal and child health: Educated work have better access to maternal and child healthcare services. They are nore likely to seek timely prenatal care, have skilled attendance durin childbirth, and adopt healthy practices that promote naternal and child well-being. This leads to reduced maternal and infinit mortality rates and improved health outcomes for both mothers and children.

Lower fertility rates: Education is closely tinked to lower fertility rates. Educated women tend to have greater into received about family planning methods, enabling them to make informed choices about when and how many children to have By having fewer children, women can better manage their a rodu tive health, allocate resources effectively, and improve the generally all-being of their families.

**Reduced gender-based colence:** Education serves as a protective factor against gender-based violence. Educated women are more likely to recognize their rights, assert a miselves, and report instances of violence. Education empowers women to challenge gender norms, advocate for their stream, and actively participate in efforts to prevent and address gender-based violence.

Ecoponic empowerment and well-being: Education enhances women's et romic opportunities and improves well-being. Educated women are in le likely to secure formal employment, earn higher incomes, and have access to financial resources. Economic empowerment enables women to afford better healthcare, nutritious food, and other essential resources contributing to their well-being [52].

**Mental health and empowerment:** Education is vital in promoting women's mental health and well-being. It fosters self-esteem, confidence, and a sense of purpose, enabling women to navigate challenges, overcome social barriers, and cope with stress. Education

provides women with skills to manage their mental health, make informed decisions, and pursue fulfilling personal and professional lives.

**Social support and networking:** Education facilitates social support networks and connections. Educated women are more likely to engage in social activities, access support systems and participate in community initiatives. These networks provide emotional support, opportunities for knowledge-sharing, and avenue for collective action to address health-related issues [53].

## Challenges and gender inequality in educational settings

Challenges and gender inequality reducational settings persist in many parts of the world, limiting women access to quality education and hindering their educational outcomes. Here are some key challenges and forms or gender inequality that affect educational settings:

Limited access to education. In many societies, women and girls face barriers to accessing education. These barriers include cultural norms and practices that practice boys' education, early marriage and childbearing, lack of safe and accessible school infrastructure, long distances to schools, and economic constraints. These factors disproportionately affect girls and contribute to lower enrollment rates and higher disposur rates among girls compared to boys.

Gender stereotypes and discrimination: Deep-rooted gender ereotypes and discrimination persist in educational settings. Girls are women may face biases discouraging them from pursuing certain subjects or career paths deemed "masculine". Stereotypes about girl's an demic abilities and societal expectations of gender roles can limit their educational opportunities and undermine their confidence and aspirations [54].

Gender-based violence: Gender-based violence, including sexual harassment and assault, can create a hostile and unsafe learning environment for girls and women. Instances of violence can deter girls from attending school, cause psychological trauma, and negatively impact their educational performance and overall well-being.

**Unequal resource allocation:** Gender inequality is evident in resource allocation within educational systems. Women's educational institutions and programs often need more funding and resources compared to those catering to men. This disparity can result in limited access to quality teachers, teaching materials, technology, and infrastructure for girls and women, perpetuating educational inequities [55-59].

Lack of female role models: The underrepresentation of women in educational leadership positions, such as teachers, principals, and administrators, contributes to the need for more female role models in educational settings. The absence of female role models can impact girls' aspirations and limit their belief in their abilities and potential.

Limited curricular inclusion: The curriculum in some educational systems may reinforce gender stereotypes and biases by marginalizing or omitting the contributions and experiences of women. This omission can perpetuate gender inequality, limit critical thinking about gender issues, and hinder the development of inclusive and gender-responsive education.

**Socio-economic factors:** Socio-economic factors, such as poverty and rural isolation, intersect with gender to create additional barriers to education for girls and women. Poverty can restrict families' ability

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to afford school-related expenses, such as uniforms, textbooks, and transportation. In rural areas, limited infrastructure and a lack of schools can disproportionately affect girls, making it challenging for them to access education.

## Gender biases in curricula and teaching practices

Gender biases in curricula and teaching practices are prevalent in many educational settings and can perpetuate gender stereotypes, reinforce inequality, and hinder girl's and boys' educational experiences. Here are some key ways in which gender biases manifest in curricula and teaching practices:

Gendered subject choices: Curricula often contain gender biases in subject choices, with certain subjects associated with specific genders. For example, science and mathematics are often considered more suitable for boys, while humanities and arts are associated with girls. This can limit students' choices, reinforce stereotypes, and discourage girls from pursuing STEM (Science, Technology, Engineering, and Mathematics) fields.

Stereotypical portrayal of gender roles: Curricula may present stereotypical gender roles, portraying women as caregivers and men as providers. This can reinforce traditional gender norms and limit students' understanding of diverse roles and aspirations. Such portrayals can undermine girl's aspirations for leadership positions or careers traditionally dominated by men and perpetuate unequal power dynamics.

Limited representation of women's contributions: Curricular often need to be more representative of the contributions and achievements of women throughout history, science, literature, and other subjects. This lack of representation can reinforce the notice that women's contributions are less significant or noteworthy limiting girl understands of their potential and role models.

Language and classroom interactions: Teach rs' language and classroom interactions can inadvertently reinforce goder biases. For example, they may use gendered language when addressing students or give boys more attention and opportunities a participation than girls. This can create a classroom environment that privileges certain gender groups and undermines girl's antidence and participation.

Unequal treatment and expectations: Gender biases can result in unequal treatment and expectations a students. For instance, teachers may have lower academic expectations for girls or provide less encouragement and support to their learning and achievement. This can lead to disparities in educational outcomes and perpetuate gender inequality.

Gendered division of labor: In some educational settings, there may be a gendered division of labor, with women predominantly assigned to specific roles such as primary school teaching, while men occupy political of higher authority and leadership. This gendered division can reinforce stereotypes and limit girl's aspirations for specific careers and leadership positions.

## Strategies to tackle these biases include

Gender-responsive curricula: Developing curricula that challenge gender stereotypes, promote gender equality, and include diverse perspectives and contributions of women. This involves revising textbooks, incorporating women's experiences and achievements, and integrating gender issues across subjects [60].

Teacher training and professional development: Providing teachers with training and support to address their own biases, develop gender-responsive teaching practices, and create an inclusive and equitable classroom environment. This can include training on unconscious bias, gender-sensitive pedagogy, and promoting inclusive classroom interactions.

**Promoting gender-neutral language:** Encouraging gender-neutral language in classrooms and educational materia, to avoid teinforcing stereotypes and create an inclusive environment for all students.

**Diverse role models:** Introducing are se role models, including women, in teaching materials, guest spekers, and classroom discussions. This can help challeng stereotype, broaden students' perspectives, and inspire girls and boys to pursue various aspirations.

Collaboration and partnerships: Collaborating with parents, communities, and stakeholders to challenge gender biases and promote gender equality in education. Engaging parents in discussions on gender equality, in corning and munity members as role models and advocates, and partnering with organizations working on gender issues can contribute to a more consprehensive approach.

#### Stereotypes and limited career choices for women

Stereotypes and limited career choices for women are a result of deeply grained societal beliefs and biases that restrict women's profession opportunities and reinforce gender inequality. Here are ome key i sues related to stereotypes and limited career choices for when:

**Traditional gender roles:** Society often assigns traditional gender roles to women, associating them with nurturing, caregiving, and domestic responsibilities. These stereotypes can influence career choices and discourage women from pursuing careers in fields that are perceived as more "masculine" or demanding. As a result, women may need more options in terms of career paths and opportunities.

Occupational segregation: Occupational segregation refers to the concentration of men and women in different industries and professions. Women are often steered towards occupations such as teaching, nursing, or administrative roles, which are traditionally viewed as more suitable for them. This segregation reinforces gender stereotypes, limits women's access to higher-paying and maledominated professions, and contributes to the gender pay gap.

Lack of role models and mentorship: Limited representation of women in leadership positions and underrepresentation of women in certain fields can create a scarcity of role models and mentors for aspiring women professionals. The absence of visible female role models can make it challenging for women to envision themselves in non-traditional careers and hinder their career progression.

Bias and discrimination: Stereotypes and biases against women in the workplace can lead to discriminatory practices such as unequal pay, limited promotions, and exclusion from decision-making roles. Women may face bias and prejudice based on assumptions about their abilities, commitment, and suitability for certain positions. These barriers can discourage women from pursuing ambitious career goals and hinder their professional growth.

Work-Life balance challenges: Societal expectations and responsibilities related to family and caregiving often place additional burdens on women, affecting their career choices and progression. Balancing work and personal life can be particularly challenging for

women, leading them to opt for careers with more flexibility or choose roles that align with societal expectations of their caregiving responsibilities.

Stereotypes in STEM fields: Science, Technology, Engineering, and Mathematics (STEM) fields are often characterized by gender stereotypes that discourage women from pursuing careers in these areas. Biases suggesting that women are less capable or less interested in STEM fields limit their access to these high-demand and well-paying professions.

# Addressing stereotypes and limited career choices for women requires concerted efforts at various levels

**Promoting gender-inclusive education:** Educating children and young adults about gender equality, challenging stereotypes, and promoting diverse career choices. This includes integrating gender equality into educational curricula, exposing students to a broad range of career options, and encouraging girl's participation in STEM subjects from an early age.

**Increasing representation and role models:** Encouraging greater representation of women in leadership positions, industries, and professions where they are underrepresented. Visible and successful female role models can inspire and motivate women to pursue diverse careers.

**Empowering women through mentorship and networking:** Providing mentorship programs and networking opportunities or women, allowing them to connect with experienced professionals, gain guidance, and build supportive networks. Mentorship an help women navigate career challenges, overcome barriers, and occess opportunities.

**Creating inclusive workplaces:** Employers should actively work towards creating inclusive work environments that value diversity and provide equal opportunities for career growth. This includes implementing fair hiring and promotion practices, addressing biases, and offering family-friendly policies that support a k-life balance.

Policy changes and advocacy: Governments, organizations, and civil society must advocate for policy changes that address gender stereotypes and promote gender equality in the workforce. This includes promoting equal pay, addressing workplace discrimination, and implementing policies at support wek-life balance.

## Promoting gender equality Neducation

Promoting goaler equality in education is crucial for creating inclusive and equital clearning environments that empower both girls and boys. Here are some key strategies to promote gender equality in education

**Equal access to education:** Ensure equal access to quality education for children, regardless of gender. This involves removing barriers such as gender-based discrimination, social norms, poverty, and geographical constraints that may hinder girl's access to education.

Gender-responsive curriculum: Develop and implement a gender-responsive curriculum that challenges stereotypes, promotes gender equality, and addresses girls' and boys' needs and interests. The curriculum should reflect diverse perspectives, include contributions from women, and promote positive gender roles.

Teacher training and professional development: Provide teachers with training and support to address their own biases, develop gendersensitive teaching practices, and create an inclusive classroom environment. This includes training on gender equality, unconscious bias, inclusive pedagogy, and strategies for engaging girls and boys in learning.

Safe and inclusive school environment Create a safe and inclusive school environment that promotes ender equality and prevents gender-based violence and harassmen. This includes implementing and enforcing policity against gender-based discrimination, bullying, and violence and primoting positive gender relationships and respectful behavior.

Encouraging girl's participation in sem: Encourage and support girl's participation in Science, Technology, Engineering, and Mathematics (STEM) fields. This involves providing access to STEM education, challenging stereotypes about gender and STEM, and promoting female procured in the stereotypes.

Empowering girls through life skills education: Offer life skills education that equips girls with knowledge and skills to make informed decision, build self-esteem, develop critical thinking, and negotiate remarked and well-being. Life skills education can help girls overcome gender-specific challenges and empower them to parsue air aspirations.

Engaging parents and communities: Engage parents, communities, and other stakeholders in promoting gender equality in education. Raise awareness about the importance of girl's education, allenge gender stereotypes, involve fathers and male role models in supporting girl's education, and foster community support for equal educational opportunities.

**Monitoring and evaluation:** Establish mechanisms to monitor progress and evaluate the effectiveness of initiatives promoting gender equality in education. Regular data collection, analysis, and reporting can help identify gaps, track progress, and inform evidence-based policy and programmatic interventions.

Advocacy and policy change: Advocate for gender-responsive policies and legislation that promote gender equality in education. This includes advocating for equal access to education, addressing gender-based discrimination, promoting gender-sensitive curricula, and allocating resources for girl's education.

International cooperation and partnerships: Foster international cooperation and partnerships to support efforts to promote gender equality in education. Collaboration among governments, civil society organizations, and international entities can leverage resources, share best practices, and strengthen advocacy for gender equality in education at a global level.

## **Empowering girls in STEM education**

Educating girls in STEM (Science, Technology, Engineering, and Mathematics) is crucial for promoting gender equality, fostering innovation, and addressing the gender gap in STEM fields. Here are some strategies to empower girls in STEM education:

**Early exposure**: Provide early exposure to STEM subjects and activities to spark a girl's interest and curiosity. This can include hands-on experiments, science fairs, coding clubs, robotics workshops, and STEM-themed events. Encouraging girls to explore

STEM fields from a young age helps break down gender stereotypes and fosters a positive attitude toward STEM.

Role models and mentors: Introduce girls to female role models and mentors who are successful in STEM fields. Women working in STEM can inspire and motivate girls by sharing their experiences, challenges, and achievements. Establish mentorship programs where girls can receive guidance, support, and encouragement from women in STEM careers.

**Challenging stereotypes**: Address gender stereotypes and biases that exist around STEM subjects. Promote the idea that STEM is for everyone and challenge the perception that certain fields are more suitable for boys. Encourage girls to pursue their interests in STEM, even if they diverge from societal expectations.

**Supportive learning environment**: Create a supportive and inclusive learning environment that encourages girls to participate in STEM subjects actively-Foster collaboration, cooperation, and respect among all students. Provide equal opportunities for girls to engage in hands-on activities, ask questions, and express their ideas without fear of judgment or discrimination.

Hands-on and project-based learning: Incorporate hands-on and project-based learning approaches in STEM education. This enables girls to apply theoretical concepts to real-world scenarios, fostering creativity, critical thinking, problem-solving skills, and confidence in their abilities. Projects that relate to real-life issues and societal challenges can motivate girls to see the relevance and impact of STEM in their lives.

**Providing resources and infrastructure**: Ensure girl access adequate resources, tools, and infrastructure for STEM edu atto. This includes well-equipped laboratories, technology resources, textbooks, and educational materials that cater to diverse learning styles. Address the digital divide by providing equal access to technology and internet connectivity.

Collaboration and networking: Encourage girls to collaborate with peers, participate in team projects, and engine in STEM-related competitions and events. Collaborative activities for er teamwork, communication skills, and peer support. Provide opportunities for girls to attend STEM conferences, vorks opps, and networking events where they can connect with professional researchers in STEM fields.

**Parental and community involvement:** Involve parents and the community in supporting girls participation in STEM education. Educate parents about the importance of STEM, challenge gender biases, and provide resources to support their daughters' interests in STEM. Engage community organizations, businesses, and universities to provide in utorship, internships, and scholarships for girls in STEM.

**Recognitio** and celebration: Recognize and celebrate the achievements of girls in STEM to inspire and motivate others. Highlight success stories of women in STEM through media, social platforms, and school events. Celebrate International Women in Engineering Day, International Day of Women and Girls in Science, and other STEM-related observances to raise awareness and promote gender equality in STEM.

**Policy support**: Advocate for policies and initiatives that promote gender equality in STEM education. Encourage governments, educational institutions, and organizations to allocate resources,

establish supportive policies, and develop strategies to address gender disparities in STEM.

### Case studies and success stories

Case studies and success stories provide valuable insights into the empowerment of girls in STEM education. Here are few examples:

"Girls Who Code" (United States): Arls Who Code is a nonprofit organization that aims to close the gende cap in technology. They offer after-school programs and surface camps there girls learn coding, computer science, and leadership stills. The organization has reached thousands of girls, inspiring them to pursue careers in technology and providing them with a poportive ommunity.

"Women in Science and Engineering" (WISE) (United Kingdom): WISE is a comparent that promotes gender equality in science, technology, and engineering. Their initiatives include mentoring programs, career support, and networking events for women in STEM. The ough mentoring efforts, they have encouraged more girls to study STEM subjects and supported women in their careers.

"She Can STEM" (India): She Can STEM is an initiative launched in India to empower girls and encourage them to pursue STEM encourage to industry professionals. The initiative aims to inspire and protival girls to overcome barriers and thrive in STEM fields by showcasing successful women in STEM.

"TechGrls" exchange program (International): TechGirls is a U.S. partment of State initiative that brings teenage girls from the tiddle East and North Africa to the United States for an intensive STM-focused program. The program includes mentorship, skill-building workshops, and hands-on projects. TechGirls has successfully empowered young girls to pursue STEM education and careers in their home countries.

"Kode with Klossy" (United States): Kode with Klossy is a coding camp founded by supermodel Karlie Kloss. The program offers free coding education to young girls, teaching them programming languages, web development, and app creation. Kode with Klossy has inspired girls from diverse backgrounds to pursue STEM fields and provided them with opportunities to develop their coding skills.

## Discussion

### Examples of countries/regions with successful initiatives

**Rwanda:** Rwanda has made significant progress in promoting gender equality in education, including STEM education. The country has implemented programs such as "Girls in ICT Day" and "Girls in Science Day" to encourage girls' participation in STEM fields. The government has also prioritized gender-responsive curriculum development and teacher training to address gender biases and stereotypes in education.

**Finland:** Finland is known for its strong commitment to gender equality in education. The country has implemented inclusive policies and practices that promote equal access and opportunities for both girls and boys in all subjects, including STEM. Finnish schools focus on fostering curiosity, critical thinking, and problem-solving skills among students, regardless of gender.

**Sweden:** Sweden has been at the forefront of gender equality in education, including STEM education. The country has implemented

policies to address gender biases in textbooks, curricula, and teaching practices. Initiatives like "Equalisters" aim to increase girls' interest and participation in STEM fields through mentorship, career guidance, and role modeling.

United Arab Emirates (UAE): The UAE has launched several initiatives to promote girls' participation in STEM education and careers. The "UAE Girl's Robotics Challenge" encourages girls to engage in robotics and coding. The "UAE Gender Balance Guide" promotes gender equality in educational institutions and workplaces, including STEM-related fields.

United States: The United States has various successful initiatives to promote gender equality in STEM education. Programs like "Girls Who Code" and "Black Girls CODE" provide coding and computer science education to girls from underrepresented backgrounds. Universities and research institutions also offer scholarships, mentorship programs, and support networks to encourage women's participation in STEM fields.

**India:** India has made significant efforts to empower girls in STEM education. Initiatives like the "Disha Program" provide scholarships and mentorship to girls pursuing engineering and technical education. The "Women Scientists Scheme" offers research grants and support to women scientists, encouraging their participation in scientific research and innovation.

Australia: Australia has implemented various initiatives to promote girls' participation in STEM education. The "Women in STEM and Entrepreneurship" program provides funding or organizations that support women and girls in STEM fields. The "Superstars of STEM" initiative aims to increase the visibility of women in STEM through media and public engagements.

## Critical analysis and future directions

Sustainability and scalability: Many targeted p ograms are often pilot projects or are limited in scope. Ensuring the estainability and scalability of these initiatives is crucial for long-term impact. It is necessary to allocate adequate resources and institutionalize these programs within the education system to reach more girls and sustain the progress achieved.

Intersectionality: Gender equality interventions should take into account the intersectionality. A girl a dentities and experiences. Girls from marginalized backgrounds, including low-income families, rural areas, minority communities, and with disabilities, may face additional barriers. Targeted programs should be inclusive and address the intersecting challenges faced by girls to ensure no one is left behind.

Teacher training and curriculum development: Gender biases in curricula and teaching tractices can perpetuate gender inequalities in education It is essential a provide comprehensive training to teachers on gender reserving pedagogy and to develop curricula that challenge screetypes, promote inclusivity, and highlight the contributions of omen in various fields.

Monitoring and evaluation: Robust monitoring and evaluation mechanisms are necessary to assess the effectiveness of targeted programs and interventions. This includes collecting sex-disaggregated data, measuring learning outcomes, tracking retention rates, and understanding the long-term impacts on girl's lives. Regular evaluation helps identify gaps, refine strategies, and ensure accountability.

### **Future directions**

**Policy reforms:** Governments should prioritize gender-responsive policies and allocate sufficient resources to promote gender equality in education. This includes addressing gender disparities in educational access, improving infrastructure, ensuring teacher training on gender-responsive pedagogy, and fostering a safe and inclusive learning environment for all students.

Collaboration and partnerships: Collaboration between governments, civil society organizations educational softutions, and the private sector is crucial. By leverating the expertise and resources of multiple stakeholders, innovative solutions can be developed to address gender disparities in education of create sustainable change.

**Technology and digital ducation:** Utilizing technology and digital education can provide no opportunities for girls, particularly those in remote or underserved areas. Access to online learning platforms, digital removed STEM-related tools can help bridge educational gaps and enpower girls to pursue their interests in STEM fields.

Mentorship and role models: Continued emphasis on mentorship program and the mayision of role models can inspire and guide girls in their ducational journey. Establishing connections between successful women in various fields and girls aspiring to enter those fields can rovide guidance, support, and motivation.

Empowering parents and communities: Engaging parents and communities in promoting gender equality in education is crucial. wareness campaigns, community dialogues, and capacity-building programs can help challenge traditional gender norms, address biases, and build support for girl's education at home and in society.

Research and knowledge sharing: Investing in research on gender disparities in education, the effectiveness of interventions, and best practices are essential. Sharing knowledge and evidence-based approaches can inform policy decisions, improve program design, and contribute to a deeper understanding of the complex factors affecting gender equality in education.

## Identifying remaining challenges and areas for improvement

While progress has been made in promoting gender equality in education, several challenges and areas for improvement remain. Here are some key challenges:

Access to education: Despite efforts to increase access to education for girls, significant disparities still exist, particularly in developing countries and marginalized communities. Barriers such as poverty, child marriage, cultural norms, and conflict-related challenges continue to limit girl's access to quality education. Addressing these barriers and ensuring universal access to education for all girls remains a critical challenge.

Quality of education: While access to education is necessary, ensuring the provision of quality education is equally essential. Girls often face gender biases in curricula, textbooks, and teaching practices, which can reinforce stereotypes and limit their learning opportunities. Improving the quality of education through gender-responsive curricula, teacher training, and inclusive pedagogical practices is crucial to overcome these challenges.

Retention and completion rates: Even when girls have access to education, high dropout rates and low completion rates remain significant challenges. Factors such as early marriage, inadequate sanitation facilities, gender-based violence, and lack of support networks contribute to girls leaving school prematurely. Programs and interventions should address these barriers and provide the necessary support to ensure girls stay in school and complete their education.

**STEM education:** Gender disparities persist in STEM education, with fewer girls pursuing science, technology, engineering, and mathematics fields. Stereotypes, lack of role models, and limited exposure to STEM opportunities contribute to this gender gap. Encouraging girl's participation in STEM education through targeted interventions, mentorship programs, and promoting positive female role models in STEM fields are essential for addressing this challenge [61].

**Gender-based violence:** Gender-based violence in educational settings, including harassment, bullying, and discrimination, creates hostile environments that hinder girl's participation and learning. Addressing and preventing gender-based violence through policies, awareness campaigns, and creating safe and inclusive spaces for girls to learn without fear is crucial.

Socio-cultural norms and attitudes: Deep-rooted socio-cultural norms and attitudes that limit girl's educational opportunities remain a significant challenge. Gender biases, discriminatory practices, and traditional gender roles perpetuate inequality in education. Efforts should focus on challenging these norms, engaging communities, and promoting gender-transformative approaches to education.

Data and monitoring: Reliable and up-to-date data in gender disparities in education is essential for effective intervention planning, monitoring, and evaluation. Many countries lack sex disaggregated data, making it difficult to track progress and identify areas for improvement. Strengthening data collection systems and monitoring mechanisms is crucial for evidence-based decrean-making and targeted interventions.

Intersectionality: Recognizing the intersection is the of gender inequality is crucial. Girls from marginalized tackgrounds, including those from rural areas, indigenous consumities, ethnic minorities, and girls with disabilities, face sultip layers of discrimination. Addressing these intersecting forms of disadvantage requires tailored approaches and inclusive policies.

## Recommendations for proporting gender equality through education

Enact gender-i sponsive policies: Governments should develop and enforce policies but promote gender equality in education. This includes addressing golder disparities in access, curriculum development, too her training, and creating safe and inclusive learning environment.

Eliminate gender stereotypes: Incorporate gender-sensitive curricula that challenge stereotypes, biases, and promote inclusive representations of gender roles and achievements. Encourage critical thinking, creativity, and discussions around gender equality in classrooms.

**Teacher training and professional development:** Provide comprehensive training for teachers on gender-responsive pedagogy, inclusive teaching practices, and addressing biases. Equip teachers

with the skills and knowledge to create an equitable learning environment and support the diverse needs of students.

Foster parent and community engagement: Engage parents, families, and communities in promoting gender equality in education. Conduct awareness campaigns, workshops, and community dialogues to address gender biases, challenge stereotypes, and promote girl's education as a community priority.

**Provide scholarships and financial support inscharisms that** specifically target girls and address their mancial barriers. This helps ensure girls from disadvantaged backgrounds are equal opportunities to access and complete their education.

Mentorship and role models: Estable a mentorship programs and provide access to positive female role models in various fields, including STEM. Mentors can soire guide, and support girls in pursuing their educational and career goals, challenging gender norms and stereotypes.

**Improve access to stem education:** Promote and support girl's participation in STEM education by providing dedicated resources, targeted initiatives, and exposure to STEM opportunities. This includes the programs in STEM fields.

Address gener-based violence: Create safe and inclusive learning environments by developing and enforcing policies to prevent and lidress gender-based violence in educational settings. Provide training for machers and students on gender-based violence prevention and apport services.

**Data collection and monitoring:** Strengthen data collection systems to track progress, identify gaps, and inform evidence-based decision-making. Collect sex-disaggregated data to understand the specific challenges girls face and monitor the interventions' effectiveness.

International cooperation and knowledge sharing: Foster international cooperation and knowledge sharing to exchange best practices, lessons learned, and innovative approaches in promoting gender equality in education. Collaborate with global organizations, NGOs, and educational institutions to leverage resources and expertise.

## Conclusion

In conclusion, promoting gender equality through education is crucial for achieving sustainable development and creating a more equitable society. This critical review has examined the role of education in empowering women and addressing gender inequality. While progress has been made, significant challenges persist. Gender disparities in access to education, limited career choices for women, biases in curricula and teaching practices, and underrepresentation of women in leadership positions are some of the key challenges identified. These challenges have far-reaching consequences, affecting women's well-being and societal progress and development.

However, targeted programs and interventions have demonstrated positive outcomes in promoting gender equality in education. Empowering girls through education leads to improved health and well-being, economic empowerment, social and political participation, and overall empowerment. Initiatives that focus on girl's access, retention, quality of education, and addressing gender stereotypes have

shown promising results. To further advance gender equality in education, it is essential to address the remaining challenges and focus on areas for improvement. This includes sustainable and scalable programs, intersectional approaches, improved data collection and monitoring, and collaboration among stakeholders. We can make significant progress by enacting gender-responsive policies, eliminating stereotypes, providing teacher training, engaging parents and communities, and promoting STEM education for girls.

## Recommendations

The recommendations provided guide policymakers, educators, communities, and international organizations to promote gender equality through education. By working together and committing to these recommendations, we can create an inclusive and empowering educational environment that enables girls and women to thrive and contribute to a more equitable and just society. Achieving gender equality in education is a matter of social justice and a prerequisite for achieving the United Nations' Sustainable Development Goals. Investing in girls' education and empowering women can create a brighter future for all and build a world where everyone has equal opportunities and rights, regardless of gender.

#### Call to action for policymakers

- Enact and enforce gender-responsive policies that prioritize gender equality in education.
- 2. Allocate adequate resources to address gender disparities access, retention, and quality of education.
- 3. Incorporate gender-responsive curricula and caching practices into educational frameworks.
- 4. Support initiatives that promote girl's education mentors, programs, and scholarships.
- Foster collaboration with international organizations and partners to exchange best practices and resources.

#### Call to action educators

- Undergo comprehensive training in gender responsive pedagogy and inclusive teaching practices.
- 2. Challenge stereotypes and bias an erast Joms through inclusive curricula and teaching materials.
- 3. Create safe and support we learning environments that promote girl's participation and employerment.
- 4. Provide mentorship and guitance to girls, encouraging their interest and articipation in diverse fields, including STEM.
- 5. Actively engagoparent and communities to promote gender equality reducation

## Call to action stakeholders

- Support and advocate for policies and initiatives that promote gender equality in education.
- Collaborate with educational institutions, NGOs, and communities to implement targeted programs.
- 3. Offer mentorship, internship, and career development opportunities for girls.
- Provide financial support and scholarships to ensure equal access to education.

Foster partnerships and knowledge sharing to drive innovative approaches and address challenges.

## Civil society organizations and NGOs

- 1. Raise awareness about the importance of gender equality in education through campaigns and advocacy.
- Provide support services, such as counseing and legal aid, to address gender-based violence and discrimination.
- Collaborate with schools and communities to in element genderresponsive programs and initiatives.
- 4. Conduct research and evaluations to merate evidence and inform policy and programmant recisions.
- Amplify the voices of grls and tomen, advocating for their rights and empowerment.

### **Conflicts of Interest**

The author declares to conflicts of interest.

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