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several years ago i enrolled in a graduate course on educational research that focused on closing the achievement gap for african american children the course was structured to explore issues causes and concerns for the achievement gap studying different educational outcomes reading books and articles we regularly shared our insights about some leading causes most importantly we were instructed to stay within our subject areas when finding any contributions to that gap in my attempt to complete the assignment of researching possible causes in my discipline of art education i found myself frustrated and angry why there were no research studies exploring how art education was a part of the equation leading to solutions in closing the gap in addition there were no basic instructions or curricula designed to make connections to the art student to develop critical thinking skills or to incorporate the use of students life experiences for learning furthermore i felt that art education was used as a testing ground in urban schools like the chicago public schools using teaching artists to teach art with no teaching certification or teaching qualifications booth 2003 the purpose of this approach was to use their knowledge and practices of art to influence change in students learning this kind of experiment branched away from any real effort to integrate art education and truly recognize it as a viable core subject area while conducting research for the course i found that researchers defined the achievement gap between white and african american students solely in terms of the four core subjects of math science social studies and language arts with no attention given to art education e g berlak 2001 honig 2001 limn 2000 sacks 2000 a study by the national black caucus entitled closing the achievement gap improving education outcomes for african american children november 2001 reports make improving the

literacy skills of students a top priority students who cannot read will experience little success in school reading is the key to academic achievement in every subject ranging from math and english to science and history we must put reading first by finding initiatives and programs designed to strengthen the reading skills of students particularly low performing students again there was no mention of art as both an african american and an art teacher i found it very disturbing that the recommendations of many national and local art educational organizations and schools failed to address the importance of teaching art education in african american urban school settings my dissertation research ultimately arose from this concern

popular science gives our readers the information and tools to improve their technology and their world the core belief that popular science and our readers share the future is going to be better and science and technology are the driving forces that will help make it better

new edition of a text providing far more than simply a cookbook of activities for science teachers coverage includes discussion on the nature of science national standards and innovative programs the nature of adolescent learners and their schools teaching strategies and classroom management pl

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