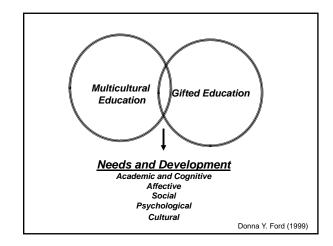
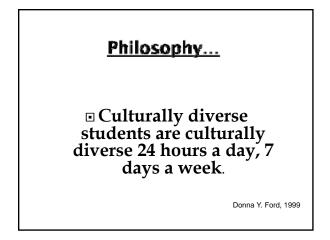
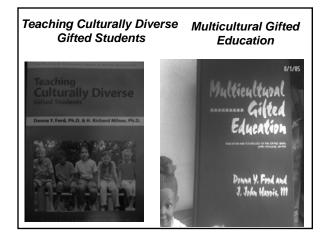
Multicultural Gifted Education: Providing Mirrors for ALL Students

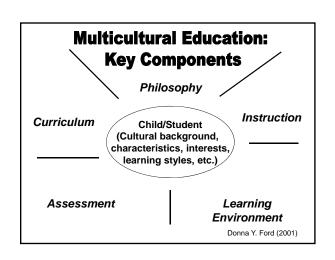
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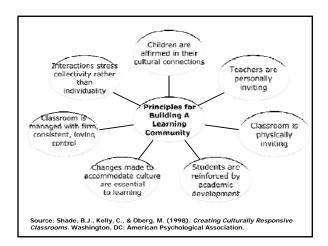




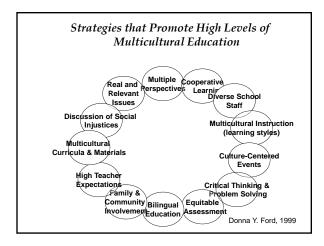


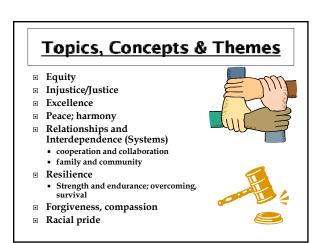






Goals of Multicultural Education James Banks Ford and Harris Curricular Desegregation Educational Equity Equal Opportunity to Learn Increased Knowledge about Diversity Increased Self-Awareness Knowledge for Social Action/Justice Student Empowerment Improved Social Harmony High Student Achievement

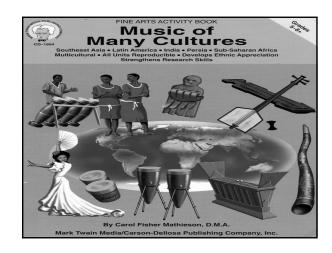




Levels of Integrating Multicultural Content into the Curriculum Social Action • Students make decisions on important social issues and take actions to help solve them. Promise: Students become empowered to resolve social issues, problems, and injustices. • The curriculum is transformed. The structure of the curriculum is changed to enable students to view concepts, issues, events, and themes from the perspectives of diverse racial and cultural groups. Promise: Children are transformed; empathy is promoted. • Content, concepts, themes, and perspectives are added to the curriculum without changing its structure (e.g., Black History Month) Students fail to understand how the predominant cultural threats with and is related to (co-dependent upon) racially and culturally diverse groups. Problem: That which is safe, politically correct, and less controversial is more likely to be taught and discussed. • Focuses on heroes, holidays, and discrete cultural elements. Problem: Students acquire a superficial understanding of racially and culturally diverse groups; biases/stereotypes may be learned or reinforced.

Contributions Culturegrams





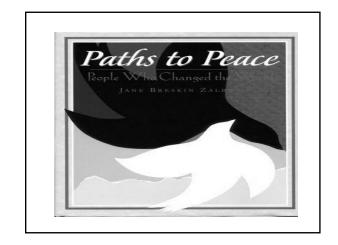


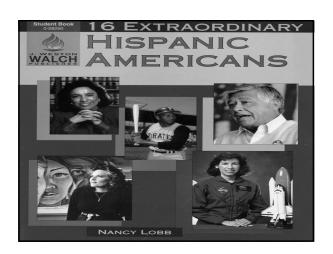


Bie	Bias in Curriculum and Instruction						
Linguistic bias	Use of masculine terms and pronouns.						
Stereotyping	One group or individual from a group portrayed in stereotypical and derogatory roles (e.g., females as secretaries, males as doctors, Blacks as janitors, Asians as cooks, Native Americans as savages, etc.).						
Invisibility or Omission	Accomplishments of certain groups ignored or minimized.						
Imbalance	Discussions of diverse groups limited; certain perspectives presented over others.						
Ethnocentrism	One perspective primary presented. Positive image presented of those in power or authority.						
Minimization	Downplaying significance of another group; trivializing their contributions/role.						
Fragmentation	Piecemeal rather than seamless treatment of diverse groups and topics.						
Demonization	Dark images of diverse groups presented. Negative connotation of terms associated with minority groups.						

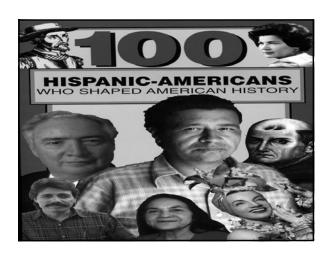
Ism or Attitude	Central Question to Consider					
AGEISM	Is a distorted picture given by showing older people as silly, frail, mean or useless?					
CHAUVINISM	Is subordination, lack of dignity, and loss of respect shown for someone due to social and/or economic status?					
ELITISM	Are people portrayed as subordinate because of social position, SES or lifestyle?					
ETHNOCENTRISM	Are events, topics, issues portrayed from one perspective, namely White and middle class?					
HANDICAPISM	Are persons with special needs shown as subordinately, helpful, less intelligent, etc.?					
RACISM	Is one race/ethnic group or person portrayed subordinate to another? Are images and situations stereotypical?					
SEXISM	Is one gender portrayed as superior to another?					
TOKENISM	Is a limited number of one type of person from another group shown?					
RELIGIOUS DEFAMATION	Is a malicious or false image shown that injures the reputation of a person from another religion?					
STEREOTYPE	Is an over-simplified image shown, usually with derogatory implications for all members of another group?					
PROPAGANDA	Is a slanted portrayal of information shown for the purpose of helping or harming a group?					

Contributions & Social Action

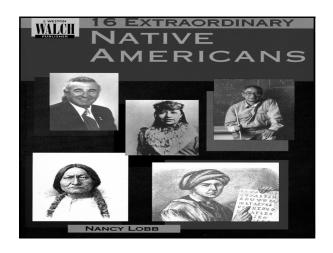




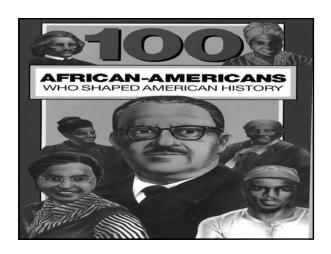






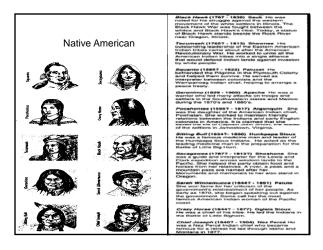








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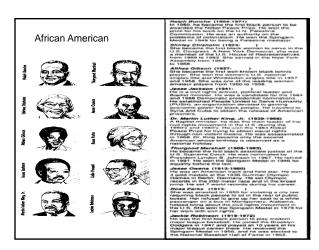


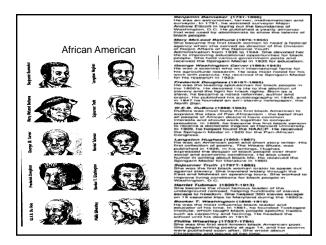


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www.oyate.org

© Crazy Horse (represented by a golden eagle), Rigoberta Menchú, Roberta Blackgoat, Anna Mae Aquash, Louis Riel, Haunani-Kay Trask, Lolita Lebrón, Chico Mendes, and Leonard Peltier.



Mathematicians of the 1980s & 1990s

http://www.math.buffalo.edu/mad/madgreate st.html#90s



Elbert Frank Cox (1895-1969). A.B., Indiana University, 1918; Ph.D., Cornell University, 1924. First African American to earn a Ph.D. in Mathematics. Member of the Mathematics faculty at Howard University, 1929-1961. While at Howard, a professional colleague of Dudley Weldon Woodard and William W.S. Claytor. Photograph courtesy of James A. Donaldson, "Black Americans in Mathematics," in Peter Duren, ed., A Century of Mathematics in America, Part III (Providence, Rhode Island: American Mathematical Society, 1989), at page 452.

http://www.math.upenn.edu/History/bh/text99.html

Multicultural Curriculum Checklist

(Donna Y. Ford)

- Did lesson plan (LP) accommodate different learning styles?
- Were students from different backgrounds given opportunities to work together?
- **■** Were students flexibly grouped?
- Did students have opportunities to learn democratic skills and principles and values?
- Did the lesson move beyond contributions and additive approaches?

Multicultural Curriculum Checklist 2

Donna Y. Ford

- Do students have a better understanding of the cultures they study?
- Do students have a better understanding of themselves as cultural beings?
 - Were students given opportunities to examine their own biases (stereotypes and assumptions)?
- Was learning made relevant and meaningful personal and/or community based?
- Did students have opportunities to learn democratic and/or social justice values?

Multicultural Curriculum Checklist 3 Donna Y. Ford

- Are students encouraged to be critical consumers of information?
- Were students given opportunities to view issues/events, etc., from two or more perspectives?
- **■** Were materials and resources multicultural?
- **■** Were students given constructive feedback?
- Were a variety of assessment or evaluation strategies adopted/used?

Multicultural Gifted Education

D.Y. Ford, 1999 Compacting Enrichment Multicultural Cooperative, Social Learning Racial Identity Acceleration Multicultural Education Curriculum In-depth Study Flexible Grouping Thinking & Employerment Teaching Cooperative, Multicultural Education Curriculum Multicultural Education Curriculum Culturally Congruent Teaching
--

D.Y. Ford 1999	Gifted Education	Multicultural Education
Environment	Teachers create safe, intellectually stimulating learning environments where students' enjoy taking intellectual and creative risks. A sense of community is developed whereby all gifts and talents are appreciated and welcomed.	Teachers create learning environments where it is safe to be different; where cultural identities are affirmed; not culturablind or colorblind. Intellectual and creative risks are welcomed.
Content	Content modified thru use of more advanced concepts, abstractions, materials.	Content modified to include greater focus on multicultural concepts, themes, events, issues, etc.
Process	Activities redesigned to be more demanding, requiring higher level thinking, problem solving, inquiry-based learning, acceleration.	Instructional strategies, including teaching styles, modified to match more closely the learning styles and cultural styles of diverse students; students' backgrounds given significant consideration.
Product	Students demonstrate their learning in various ways, focusing on authentic products and real audiences. Choices, options.	Students demonstrate their learning in various ways, focusing on real issues, authentic products and real audiences; less focus on testing and more on doing. Change is often the focus of the product. Choices, options.
Assessment	Assessment is often multiple choice, essay, etc. Portfolio and performance-based also used.	Tests viewed as questionable. Performance-based assessments preferred.

	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
Contributions	Students are taught and know facts about cultural artifacts, events, groups, and other cultural elements.	Students show an understanding of information about cultural artifacts, groups, etc.	Students are asked to and can apply information learned about cultural artifacts, events, etc.	Students are taught to and can analyze (e.g., compare and contrast) information about cultural artifacts, groups, etc.	Students are required to and can create a new product from the information on cultural artifacts, groups, etc.	Students are taught to and can evaluate facts and information based on cultural artifacts, groups, etc.
Additive	Students are taught and know concepts and themes about cultural groups.	Students are taught and can understand cultural concepts and themes.	Students are required to and can apply information learned about cultural concepts and themes.	Students are taught to and can analyze important cultural concepts and themes.	Students are asked to and can synthesize important information about cultural concepts and themes	Students are taught to and can critique and evaluate cultural issues, concepts and themes.
Transformation	Students are given information on important cultural elements, groups, etc., and can understand this information from different perspectives.	Students are taught to understand and can demonstrate an understanding of important cultural concepts and themes from different perspectives.	Students are asked to and can apply their understanding of important concepts and themes from different perspectives.	Students are taught to and can examine important cultural concepts and themes from more than one perspective.	Students are required to and can create a product based on their new perspective or the perspective of another group.	Students are taught to and can critique, evaluate or judge important cultural concepts and themes from different viewpoints (e.g., minority group).
Social Action	Based on information about cultural artifacts, etc., students make recommendations for social action.	Based on their understanding of important concepts and themes, students make recommendations for social action.	Students are asked to can apply their understanding of important social and cultural issues; they make recommendations and take action on these issues.	Students are required to and can analyze social and cultural issues from different perspectives; they take action on these issues.	Students create a plan of action to address a social and cultural issue(s); they seek change.	Students critique important social and cultural issues, and seek to make change.

	Knowledge	Comprehension	Application	Application Analysis		Evaluation
,		\			Synthesis	
Contributions	Name three songs that were popular among slaves.	Make an outline of events leading to the Civil War.	Create a model of the underground railroad.	Examine how stereotypes about minority groups contribute to slavery.	Write a story about the contribution of Hispanic Americans to the music industry.	Critique the work o a famous American Indian artist.
Additive	List three factors that contribute to prejudiced beliefs.	After reading a biography about a famous person of color, summarize the racial barriers that the person faced.	Find a book or song that discusses the problems of racial prejudice in society.	Compare and contrast the writings of W.E.B. DuBois and Booker T. Washington on issues of racial discrimination.	Write a play about the Spanish Inquisition.	Write a paper explaining why you think it is important (or not important) to learn about prejudice.
Transformation	Describe how slaves might have felt being held in captivity.	Explain why American Indians use folk tales and storytelling as a means of coping with oppression.	Read the essay "What America Means to Me". Write a paper showing how members of a minority group might respond to this essay.	Predict how our nation would have rospered without lave labor. What other forms of labor could have been used?	Develop a survey regarding students' experiences with prejudice in their school or their community.	Assume the identity of a plantation own or a slave. From th perspective, write a story outlining the differences between your life and the ideal of liberty and justice for all.
Social Action SOURCE: Ford & Harris (1999). Multicultural Gifted Education	What would you have done during the 17th century to end slavery?	List some ways that the media contribute to our perceptions of minority groups. What can be done to improve how the media portray minorities?	Review 3 to 5 sources on affirmation action; then write and submit an editorial to a newspaper describing your views on this topic.	Spend a day (week, etc.) observing and analyzing how minority groups are treated at the mall. Share the results with the store owners.	Form a school club whose goal is to create a sense of community and respect in the school building.	Examine school policies to see if democratic ideals at present. Write a ne school policy, and share the findings and recommendations with administration

	Bloom-Banks (Ford-Harris) Matrix								
	Knowledge	Compre- hension	Application	Analysis	Synthesis	Evaluation			
Contributions	Name two songs that were popular among slaves.	What is the pentatonic scale?		What other types/genre of music use the pentatonic scale?	Create a song using the pentatonic scale.				
Additive	What is another name for 'slave' songs?	Why do you think the songs are called 'spirituals"?	Find 10 spirituals; categorize them in themes.	How are spirituals similar to and different from gospel songs?	Create a song dedicated to an individual whom you admire.	Research and write a paper regarding the use of music as a coping mechanism.			
Transformation		Read a biography of a musician who is known for using the pentatonic scale. Why did he/she choose this genre of music?	Find a spiritual and read the author's biography. What was his/her life like? What barriers did he/she face?	Compare and contrast two spirituals. Find themes to discuss such as survival and resilience.	Develop a study in which you interview 2-3 musicians. Analyze why each chose his/her profession, instrument, etc. What themes or patterns do you see?	In what might music be valued and used differently across diverse cultural groups?			
Social Action			Find a spiritual and read the author's biography. hilfe. What barriers did he/she face? How can you use what you've						
SOURCE: Ford & Harris (1999). Multicultural Gifted Education			read to make changes in your life or community?						

	TL		n Bow Th	at Talke	-	
Theme: Citizenship	Knowledge	Compre- hension	Application	Analysis	Synthesis	Evaluation
Contributions	What is the problem in the book?	Why didn't the crayons get along?	Draw a cartoon of people not getting along		Predict what will happen if the box of crayons does not get along	
Additive			Explain why the girl would need to use all the different crayons to make a picture		Predict what will happen if the class does not get along	
Trans- formation	Describe how you think the orange crayon felt not being liked by the other crayons.		Write a paragraph explaining why it is important to be nice to someone who is not always nice to you	Interview the principal to find out how he would feel if people in the school are hostile to each other	Develop a survey to find out how 5th graders get along and solve problems	Develop a survey to find out how 5th graders get along and solve problems; compare the responses of males and females
Social Action	What could you do if you saw someone being treated unfairly?	Act out the story to another class	Role play what you would do if you see two crayons (or people) being	Observe how other children treat each other at the playground. Share results with	Write a top 10 list for classroom/ classmates on how to treat each other kindly	
Carly, Rachel, I Vanderbilt Univ			unfriendly to each other; present the play to another	teacher and make suggestions for addressing issues	-	

		Cros	ody Ti	riangle	<u> </u>	
	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
Contri- butions	Name three different buildings or structures in three different countries that use triangles.	Where does the name "triangle" come from?		Compare and contrast two different buildings from different places with different shapes in their structure.	-	What are the benefits and disadvantages to having triangles in an architectural design.
Additive	Participate in class session on math contributions from other countries.	Research a mathematician or architect from another country. Write a biography.			Construct a building to be used in a different culture using one of the shapes we talked about. What's the building's purpose?	
Transfor- mation			Imagine you are a mathematician from another country. Write about a structure you would build for your country.	Write an imaginary account of a dialog between two famous architects from different countries.	Poll students in the class about their own self-acceptance.	Assume the identity of city planner. Talk about how our city would be different if there were no triangles.
Social Action Dawson, Shannon, Sarah, and Aubrey			Write a letter to your congressman lobbying for a monument to be erected in honor of another country's mathematical/ architectural impact.		Create and ask students in your school to sign an "acceptance pledge."	Explain why a certain mathematician or group has been neglected in the math community, and lobby for an informal holiday in honor of the often forgotten group or person.

	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
Contributions	Students learn about scientists from different ethnic groups.	Students understand the importance of having different people contribute to scientific knowledge.	Students read a biography about a culturally diverse scientist and then write a short summary or timeline of his/b	Students study the scientific method and consider if other groups follow this process.	Students produce a display of scientists from various cultural groups according to scientific areas of study.	Students evaluate the quality of their display and discuss ways to improve their representation of scientists from differer cultures.
Additive	Define the term/ concept of 'environmental racism'.	Students understand scientific principles behind air quality and benefits of green spaces in community.	students articulate their understanding of issues in terms of their social and cultural significance.	Students look for latterns in the leighborhoods of fected the most by fictories and least smount of green paces.	Students develop a poster, collage or brochure on some aspect of environmental racism.	Students determine the success of a community garden program used in other cities in the country as a way of combating air pollution and providing green spaces
Trans- formation	bases for AEM careers based on reading one or more biographies of minority individuals.	Students look for inventions by a minority scientist that have affected their lives. They share the feelings in a journal.	Community to the later through the later through the later through the same field, one minority and one who is not. How were their lives different and similar, especially regarding barriers and supports?	Students study the notion of 'environmental acism' (e.g., lead placning, location of latefalls) and compare findings by racial groups.	Students develop a play or skit on some aspect of erwironmental racism, making sure to gather pesspectives from culturally diverse members of the community.	Students determine the success of a community garden program used in other cities in the country as a way of combating air pollution and providing green spaces. They explore how the programs are different across communities.
Social Action SOURCE: Ford & Harris (1999). Multicultural Gifted Education	Students identify a scientific problem in their community, like air pollution or the lack of green spaces, and take some type of action to address it.	Students show their understanding of STEM stats and seek a role model in this area for themselves and/or a friend.	Older students share their biographies with younger students.	Secents look to ditterns in the heighborhoods effected the most by factories and least amount of green spaces. They design a project to address the issue.	Students draft a plan for improving air quality and providing green spaces in the poorest communities in their city and present it to City Hall.	Based on a reviewed search, students develop a club or organization to addres a key issue in STEMS in their school or community (e.g., mentoring program)

	Bloom-Banks (Ford-Harris) Matrix									
	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation				
Contributions										
Additive										
Transformation										
Social Action										
SOURCE: Ford & Harris (1999). Multicultural Gifted Education	SOURCE: F	ord & Harris (1999)	. Multicultural Gi	fted Education						

Resources

- Culturegrams
- **■** Lakeshore (School supply store)
- **■** nytimes.com
- discovery.com

Multicultural Mathematics & Science

- Addison-Wesley. (1992). Multiculturalism in mathematics, science, and technology: Readings and activities. Menlo, CA: Addison-Wesley
- Wesley
 Barba, R.H. (1998). Science in the multicultural classroom: A
 guide to teaching and learning. New York: Allyn & Bacon.
 Krause, M. (1983). Multicultural mathematics materials. Mahwah,
 NJ: National Council of Teachers of Mathematics.
 Lumpkin, B. (1997). Algebra activities from many cultures.
 Portland, ME: Walch.
- Lumpkin, B. (1997). Geometry activities from many cultures. Portland, ME: Walch.
- Lumpkin, B. & Strong, D. (1995). <u>Multicultural science and math connections: Middle school projects and activities</u>. Portland, ME: Walch.
- Miller, S.M. & McCaskill, B. (Eds.). (1993). Multicultural literature and literacies: Making space for difference. Albany: SUNY Press.
- Vatter, T. (1996). <u>Civics mathematics</u>. Englewood, CA: Teachers Ideas Press.

Websites

- http://www.everythingpreschool.com/lessonplans/ multicultural lesson plans for preschoolers.
- http://mathforum.com/mam/00/612/index.html (Lesson plans with math and science from a multicultural perspective)
- http://www.educ.state.ak.us/tls/frameworks/mathsci/msapdq.htm (Math and science lesson plans)
- http://www.math.binghamton.edu/zaslav/cz.html (Extensive ethnomathematics bibliography by Claudia Zaslavsky)
- http://curry.edschool.virginia.edu/go/multicultural/sites/aframdocs.html (an extensive multicultural resource site for teachers)
- http://www.wv-hsta.org/mced/activities/default.htm List of multicultural activities to use in science teaching
- http://www.goenc.com/ ENC offers math and science educators access to information about more than 27,000 print and multi-media curriculum resources and professional development materials. http://www.ethnomath.org/ ethnomathematics
- http://www.kn.pacbell.com/wired/BHM/AfroAm.html (activities for Black History Month).
- http://falcon.jmu.edu/~ramseyil/mulnativ.htm (materials on Native Americans)
- http://www.mibibook.com/tabofcon.html (materials on Native Americans)
 http://www.mibibook.com/tabofcon.html (materials on Hispanic Americans)
 Fifty Multicultural Books Every Child Should Know
 http://www.soemadison.wisc.edu/cobc/50mult.htm
 American Library Association: "Notable Books for Children"