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| **Economically Disadvantaged** |
| **Connect science education to students’ sense of “place” as physical, historical, and sociocultural dimensions** |
| **Apply students’ funds of knowledge and cultural practices** |
| **Use project-based science learning as a form of connected science,** |
| **Provide school resources and funding for science instruction** |
| **Students from major racialand ethnic groups** |
| **Employ culturally relevant pedagogy** |
| **Incorporate community involvement and social activism** |
| **Use multiple representation and multimodal experiences** |
| **Develop school support systems including role models and mentors of similar racial or ethnic backgrounds** |
| **Students with disabilities** |
| **Teach using differentiated instruction** |
| **Employ multiple means of representation** |
| **Allow multiple means of expression** |
| **Plan for multiple means of engagement** |
| **Students with limited****English proficiency** |
| **Employ literacy strategies for all students** |
| **Use language support strategies** |
| **Use discourse strategies** |
| **Provide home language support** |
| **Develop home culture connections** |
| **Girls** |
| **Use Instructional strategies to increase their science achievement and their intentions to continue studies in science** |
| **Use curricula to improve their achievement and confidence in science by promoting images of successful females in science** |
| **Structure classrooms’ and schools’ organizational structure in ways that benefit them in science (e.g., after school clubs, summer camps, and mentoring programs).** |
| **Alternative education programs** |
| **Provide structured after-school opportunities** |
| **Establish family outreach** |
| **Provide life skills training** |
| **Ensure safe learning environment** |
| **Provide individualized academic support** |
| **Gifted and Talented Students** |
| **Use fast pacing** |
| **Give a level of challenge (including differentiation of content)** |
| **Provide opportunities for self-direction** |
| **Use strategic grouping** |