

Appendix A- List of Common Measure Items.

Science Literacy-Grades 4 to 7

| Item # | Item | National Scale | | | California Scale | |
|--------|---|----------------|----------------|---------------------------------|------------------|----------------|
| | | Subscale | Factor Loading | CA recommended edits | Subscale | Factor Loading |
| 1. | I like science | Attitudes | .82 | -- | Attitudes | .82 |
| 2. | I am good at science | Attitudes | .76 | -- | Attitudes | .71 |
| 3. | I would like to have a job related to science | Attitudes | .81 | -- | Attitudes | .67 |
| 4. | I do science activities that are not for school | Attitudes | .77 | -- | Attitudes | .70 |
| 5. | I think science is useful for solving everyday problems | Attitudes | .80 | -- | Attitudes | .67 |
| 6. | I like to see how things are made or invented | Interest | .85 | -- | Attitudes | .69 |
| 7. | I like experimenting and testing ideas | Interest | .80 | -- | Attitudes | .67 |
| 8. | I get excited about new discoveries | Interest | .83 | -- | Attitudes | .69 |
| 9. | I want to learn more about science | Interest | .80 | -- | Attitudes | .83 |
| 10. | I can do an experiment to answer a question | Skills | | Data not collected on this item | | |
| 11. | I can tell others how to do an experiment | Skills | | Data not collected on this item | | |
| 12. | I can explain why things happen in an experiment | Skills | | Data not collected on this item | | |

Note: Factor loadings for the National scales derived from an exploratory factor analysis for each subscale with the specification to retain one factor.

Appendix A- List of Common Measure Items.

Science Literacy-Grades 8 to 12

| Item # | Item | National Scale | | | California Scale | |
|--------|---|----------------|----------------|----------------------|------------------|----------------|
| | | Subscale | Factor Loading | CA recommended edits | Subscale | Factor Loading |
| 1. | I like science | Attitudes | .87 | -- | Attitudes | .89 |
| 2. | I am good at science | Attitudes | .85 | -- | Attitudes | .84 |
| 3. | I would like to have a job related to science | Attitudes | .85 | -- | Attitudes | .79 |
| 4. | I do science activities that are not for school | Attitudes | .81 | -- | Attitudes | .83 |
| 5. | I think science will be important in my future | Attitudes | .87 | -- | Attitudes | .82 |
| 6. | I think science is useful for solving everyday problems | Attitudes | .77 | -- | Attitudes | .55 |
| 7. | I like to see how things are made or invented | Interest | .83 | Exclude | -- | -- |
| 8. | I like experimenting and testing ideas | Interest | .87 | Exclude | -- | -- |
| 9. | I get excited about new discoveries | Interest | .84 | Exclude | -- | -- |
| 10. | I want to learn more about science | Interest | .82 | Exclude | -- | -- |
| 11. | I can use scientific data to form a question | Skills | .83 | -- | Skills | .70 |
| 12. | I can design a scientific procedure to answer a question | Skills | .89 | -- | Skills | .90 |
| 13. | I can use data to create a graph for presentation to others | Skills | .88 | -- | Skills | .86 |

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| 14. | I can create a display to communicate my data and observations | Skills | .85 | -- | Skills | .83 |
| 15. | I can use science terms to share my results | Skills | .87 | -- | Skills | .85 |
| 16. | I have helped with a community service project that relates to science (for example: planted trees or garden, road or stream clean-up, recycling) | Application | .79 | -- | Application | .69 |
| 17. | In my 4-H program, I used science tools to help in the community (for example: mapped with GIS, tested water quality) | Application | .92 | -- | Application | .92 |
| 18. | I taught others about science (for example: demonstrated, gave presentation, led a project) | Application | .89 | -- | Application | .86 |
| 19. | I organized or led science-related events (for example: science fair, environmental festival) | Application | .92 | -- | Application | .90 |

Note: Factor loadings for the National scales derived from an exploratory factor analysis for each subscale with the specification to retain one factor.

Appendix A- List of Common Measure Items.

Citizenship-Grades 4-7

| Item # | Item | National Scale | | | California Scale | |
|--------|---|----------------------------------|----------------|----------------------|------------------|----------------|
| | | Subscale | Factor Loading | CA recommended edits | Subscale | Factor Loading |
| 1. | I enjoyed learning about people who are different from me | Cultural Diversity | -- | -- | Citizenship | .64 |
| 2. | I can make a difference in my community through community service | Community Engagement | .78 | -- | Citizenship | .69 |
| 3. | I help make sure everyone gets an opportunity to say what they think | Understanding Democratic Process | .88 | -- | Citizenship | .69 |
| 4. | I can apply knowledge in ways that solve "real-life" problems through community service | Community Engagement | .79 | -- | Citizenship | .68 |
| 5. | I gained skills through serving my community that will help me in the future | Community Engagement | .79 | -- | Citizenship | .67 |
| 6. | I treat everyone fairly and equally when I am in charge of a group | Understanding Democratic Process | .88 | -- | Citizenship | .56 |
| 7. | I plan to work on projects to better my community | Community Engagement | .71 | -- | Citizenship | .52 |
| 8. | I am encouraged to volunteer more | Community Engagement | .91 | -- | Citizenship | .52 |

Note: Factor loadings for the National scales derived from an exploratory factor analysis for each subscale with the specification to retain one factor.

Appendix A- List of Common Measure Items.

Citizenship-Grades 8-12

| Item # | Item | National Scale | | | California Scale | |
|--------|--|---|----------------|----------------------|------------------|----------------|
| | | Subscale | Factor Loading | CA recommended edits | Subscale | Factor Loading |
| 1. | I pay attention to news events that affect my community | Awareness of Community & Community Issues | .57 | Exclude | -- | -- |
| 2. | I am aware of the important needs in my community | Awareness of Community & Community Issues | .75 | Exclude | -- | -- |
| 3. | I really care about my community | Awareness of Community & Community Issues | .68 | Exclude | -- | -- |
| 4. | I talk to my friends about issues affecting my community, state, or world | Awareness of Community & Community Issues | .68 | Exclude | -- | -- |
| 5. | I'm interested in others' opinions about public issues | Awareness of Community & Community Issues | .78 | Exclude | -- | -- |
| 6. | I listen to everyone's views whether I agree or not | Awareness of Community & Community Issues | .65 | Exclude | -- | -- |
| 7. | When I hear about an issue, I try to figure out if they are just telling one side of the story | Awareness of Community & Community Issues | .65 | Exclude | -- | -- |
| 8. | I explore cultural differences | Cultural Diversity | .78 | Exclude | -- | -- |
| 9. | I value learning about other cultures | Cultural Diversity | .81 | Exclude | -- | -- |
| 10. | I respect people from different cultures | Cultural Diversity | .73 | Exclude | -- | -- |
| 11. | I have learned about people who are different from me | Cultural Diversity | .73 | -- | Citizenship | .56 |
| 12. | I can make a difference in my community through community service | Community Engagement | .72 | -- | Citizenship | .71 |
| 13. | I help make sure everyone gets an opportunity to say what they | Understanding Democratic Process | .81 | -- | Citizenship | .75 |

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|-----|--|----------------------------------|-----|---------|-------------|-----|
| 14. | I can apply knowledge in ways that solve "real-life" problems through community service | Community Engagement | .71 | -- | Citizenship | .73 |
| 15. | I gained skills through serving my community that will help me in the future | Community Engagement | .73 | -- | Citizenship | .80 |
| 16. | I treat everyone fairly and equally when I am in charge of a group | Understanding Democratic Process | .86 | -- | Citizenship | .73 |
| 17. | I am able to lead a group in making a decision | Understanding Democratic Process | .71 | Exclude | -- | -- |
| 18. | I would enjoy hosting someone from another culture | Cultural Diversity | .44 | Exclude | -- | -- |
| 19. | I can contact someone I've never met before to get their help with a problem | Community Engagement | .50 | Exclude | -- | -- |
| 20. | I plan to work on projects to better my community | Community Engagement | .78 | -- | Citizenship | .65 |
| 21. | I am encouraged to volunteer more | Community Engagement | .70 | -- | Citizenship | .51 |
| 22. | After high school I will continue to work to better my community | Community Engagement | .73 | Exclude | -- | -- |
| 23. | I am interested in a career that helps others | Community Engagement | .55 | Exclude | -- | -- |
| 24. | I am interested in working in government (such as school board, Director of parks and rec, legislator, legislative aide, intern) | Community Engagement | .38 | Exclude | -- | -- |

Note: Factor loadings for the National scales derived from an exploratory factor analysis for each subscale with the specification to retain one factor.

Appendix A- List of Common Measure Items.

Healthy Living-Grades 4-7

| Item # | Item | Subscale | Factor Loading |
|---------------|--|--------------------|-----------------------|
| 1. | Eat fruit for a snack | Dietary Guidelines | -.10 |
| 2. | Eat vegetables for a snack | Dietary Guidelines | -.17 |
| 3. | Choose water instead of soda pop or Kool-Aid when I am thirsty. | Dietary Guidelines | -.01 |
| 4. | Drink 1% or skim milk instead of 2% or whole milk | Dietary Guidelines | -.23 |
| 5. | Choose a small instead of a large order of French fries | Dietary Guidelines | -.07 |
| 6. | Eat smaller servings of high fat foods like French fries, chips, snack cakes, cookies, or ice cream | Dietary Guidelines | -.17 |
| 7. | Eat a low-fat snack like pretzels instead of chips | Dietary Guidelines | -.04 |
| 8. | Drink less soda pop | Dietary Guidelines | -.00 |
| 9. | Drink less Kool-Aid | Dietary Guidelines | .01 |
| 10. | I do moderate physical activities like walking, helping around the house, raking leaves, or using the stairs | Physical Activity | .38 |
| 11. | I exercise 30-60 minutes every day | Physical Activity | .22 |
| 12. | Being active is fun | Physical Activity | .76 |
| 13. | Being active is good for me | Physical Activity | .89 |
| 14. | Physical activity will help me stay fit | Physical Activity | .91 |
| 15. | I learned the foods that I should eat every day | Dietary Guidelines | .81 |
| 16. | I learned what makes up a balanced diet | Dietary Guidelines | .80 |
| 17. | I learned why it is important for me to eat a healthy diet | Dietary Guidelines | .89 |
| 18. | I learned how to make healthy food choices | Dietary Guidelines | .88 |
| 19. | I eat more fruits and vegetables | Dietary Guidelines | .77 |

Appendix A- List of Common Measure Items.

| | | | |
|-----|---|--------------------|-----|
| 20. | I eat more whole grains | Dietary Guidelines | .75 |
| 21. | I eat less junk foods | Dietary Guidelines | .60 |
| 22. | I drink more water | Dietary Guidelines | .73 |
| 23. | I encourage my family to eat meals together | Dietary Guidelines | .71 |
| 24. | When I cook food I am safe and careful | Risk Prevention | .88 |
| 25. | If I am sick, I ask an adult before taking medicine | Risk Prevention | .84 |
| 26. | I wear a helmet when I ride a bicycle | Risk Prevention | .61 |
| 27. | I wear a helmet when I rollerblade or ride a skateboard | Risk Prevention | .62 |
| 28. | I wear a helmet when riding an All-Terrain Vehicle | Risk Prevention | .69 |
| 29. | I follow safety rules when using a firearm or bow | Risk Prevention | .86 |
| 30. | I wear reflective clothing when walking after dark | Risk Prevention | .64 |
| 31. | I use a pedestrian crossing when crossing the road | Risk Prevention | .85 |
| 32. | I tell my friends what I think when they are going to do something unsafe | Risk Prevention | .75 |
| 33. | I avoid using substances that could harm me | Risk Prevention | .86 |
| 34. | I wear a seat belt when riding in a car | Risk Prevention | .88 |
| 35. | I avoid riding in cars with unsafe drivers | Risk Prevention | .86 |

Note: Factor loadings for the National scales derived from an exploratory factor analysis for each subscale with the specification to retain one factor.

Appendix A- List of Common Measure Items.

Healthy Living-Grades 8-12

| Item # | Item | Subscale | Factor Loading |
|---------------|---|--------------------|-----------------------|
| 1. | I learned about the foods that I should eat every day | Dietary Guidelines | .78 |
| 2. | I learned what makes up a balanced diet | Dietary Guidelines | .82 |
| 3. | I learned why it is important for me to eat a healthy diet | Dietary Guidelines | .73 |
| 4. | I learned how to make healthy food choices | Dietary Guidelines | .78 |
| 5. | I learned how many calories I need to eat each day | Dietary Guidelines | .60 |
| 6. | I learned the importance of fruits and vegetables in my diet | Dietary Guidelines | .74 |
| 7. | I learned the importance of whole grains in my diet | Dietary Guidelines | .66 |
| 8. | I think about what foods my body needs during the day | Dietary Guidelines | .77 |
| 9. | I make food choices based on what I know my body needs | Dietary Guidelines | .71 |
| 10. | I make healthy food choices whenever I can | Dietary Guidelines | .69 |
| 11. | I match my food intake to the number of calories I need to eat each day | Dietary Guidelines | .43 |
| 12. | I eat more fruits and vegetables | Dietary Guidelines | .55 |
| 13. | I eat more whole grains | Dietary Guidelines | .63 |
| 14. | I eat less junk foods | Dietary Guidelines | .63 |
| 15. | I drink less soda | Dietary Guidelines | .59 |
| 16. | I drink more water | Dietary Guidelines | .45 |
| 17. | I encourage my family to eat meals together | Dietary Guidelines | .41 |
| 18. | When I cook food, I am safe and careful | Risk Prevention | .68 |
| 19. | If I am sick, I ask an adult before taking medicine | Risk Prevention | .69 |

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| | | | |
|-----|---|--------------------|------|
| 20. | I wear reflective clothing when walking after dark | Risk Prevention | .71 |
| 21. | I use pedestrian crossings when crossing the road | Risk Prevention | .79 |
| 22. | I tell my friends what I think when they are going to do something unsafe | Risk Prevention | .68 |
| 23. | I avoid using substances that could harm me | Risk Prevention | .63 |
| 24. | My family eats at least one meal a day together | Dietary Guidelines | -.06 |
| 25. | During the past 7 days, on how many days were you physically active for a total of at least 60 minutes per day (add up all the time you spent in any kind of physical activity that increased your heart rate and made you breathe hard some of the time) | Physical Activity | .54 |
| 26. | On an average school day, how many hours do you spend watching television? | Physical Activity | .76 |
| 27. | On an average school day, how many hours do you play video games, looking at a computer, smartphone or tablet for something that is not for school? | Physical Activity | .79 |
| 28. | When you ride a bicycle how often do you wear a helmet | Risk Prevention | .64 |
| 29. | When you rollerblade or skateboard how often do you wear a helmet? | Risk Prevention | .47 |
| 30. | When you ride an All-Terrain Vehicle (ATV) how often do you wear a helmet? | Risk Prevention | -.11 |
| 31. | When you use a firearm, how often do you follow safety rules? | Risk Prevention | .32 |
| 32. | How often do you use a seatbelt when riding in a car? | Risk Prevention | -.01 |
| 33. | Have you ever ridden in a car driven by someone who had been drinking alcohol? | Risk Prevention | .13 |

Note: Factor loadings for the National scales derived from an exploratory factor analysis for each subscale with the specification to retain one factor.

Appendix A- List of Common Measure Items.

Youth Development-Grades 4-7

| Item # | Item | Subscale | Factor Loading |
|---------------|--|------------------|-----------------------|
| 1. | I use information to make decisions | Positive choices | .59 |
| 2. | I set goals for myself | Positive choices | .62 |
| 3. | I take responsibility for my actions | Positive choices | .59 |
| 4. | I listen well to others | Communication | .68 |
| 5. | I am respectful of others | Communication | .66 |
| 6. | I have the confidence to speak in front of groups | Communication | .59 |
| 7. | I can work things out when others don't agree with me | Communication | .75 |
| 8. | I work well with other youth | Connection | .67 |
| 9. | I am comfortable making my own decisions | Positive choices | .75 |
| 10. | I have a plan for reaching my goals | Positive choices | .74 |
| 11. | I know how to deal with stress in positive ways | Positive choices | .76 |
| 12. | I can explain my decisions to others | Positive choices | .72 |
| 13. | I can change my plan when I need to | Positive choices | .77 |
| 14. | I don't let my friends talk me into doing something I don't want to do | Positive choices | .66 |
| 15. | I am comfortable sharing my thoughts and feelings with others | Communication | .74 |
| 16. | I can use technology to help me express my ideas | Communication | .67 |
| 17. | I know who I can go to if I need help with a problem | Communication | .55 |
| 18. | I can work successfully with adults | Connection | .79 |
| 19. | I have friends who care about me | Connection | .81 |

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|-----|---|--------------|-----|
| 20. | I am connected to adults who are not my parents | Connection | .80 |
| 21. | I am someone who wants to help others | Contribution | .80 |
| 22. | I like to work with others to solve problems | Contribution | .82 |
| 23. | I have talents I can offer to others | Contribution | .79 |
| 24. | I learned things that helped me make a difference in my community | Contribution | .77 |
| 25. | I helped with a project that made a difference in my community | Contribution | .72 |

Note: Factor loadings for the National scales derived from an exploratory factor analysis for each subscale with the specification to retain one factor.

Appendix A- List of Common Measure Items.

Youth Development-Grades 8-12

| Item # | Item | Subscale | Factor Loading |
|---------------|---|------------------|-----------------------|
| 1. | I use information to make decisions | Positive choices | .56 |
| 2. | I set goals for myself | Positive choices | .64 |
| 3. | I take responsibility for my actions | Positive choices | .63 |
| 4. | I can explain why my decision is a good one | Positive choices | .68 |
| 5. | I consider the consequences of my choices | Positive choices | .71 |
| 6. | I can resist negative social pressures | Positive choices | .60 |
| 7. | I listen well to others | Communication | .59 |
| 8. | I am respectful of others | Communication | .67 |
| 9. | I have the confidence to speak in front of groups | Communication | .59 |
| 10. | I can resolve differences with others in positive ways | Communication | .66 |
| 11. | I work well with other youth | Connection | .43 |
| 12. | I am comfortable making my own decisions | Positive choices | .53 |
| 13. | I have a plan for reaching my goals | Positive choices | .72 |
| 14. | I know how to deal with stress in positive ways | Positive choices | .71 |
| 15. | I can make alternative plans if something doesn't work | Positive choices | .76 |
| 16. | I am comfortable sharing my thoughts and feelings with others | Communication | .80 |
| 17. | I can use technology to help me express my ideas | Communication | .67 |
| 18. | I know who I can go to if I need help with a problem | Communication | .74 |
| 19. | I am willing to consider the ideas of others even if they are different than mine | Communication | .77 |

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|-----|---|---------------|-----|
| 20. | I can stand up for things that are important to me | Communication | .75 |
| 21. | I can work successfully with adults | Connection | .82 |
| 22. | I have friends who care about me | Connection | .83 |
| 23. | I know community leaders who support me | Connection | .91 |
| 24. | I have adults in my life who care about me and are interested in my success | Connection | .89 |
| 25. | I am someone who wants to help others | Contribution | .89 |
| 26. | I like to work with others to solve problem | Contribution | .90 |
| 27. | I have talents I can offer to others | Contribution | .82 |
| 28. | I learned things that helped me make a difference in my community | Contribution | .90 |
| 29. | I led a project that made a difference in my community | Contribution | .78 |

Note: Factor loadings for the National scales derived from an exploratory factor analysis for each subscale with the specification to retain one factor.