

**NOAA California B-WET Program
Evaluation Items Database**

Based on the literature review we've pulled together a database of survey questions (items) selected from published scales, which match California B-WET content and goals. These items are offered here to help you develop your own survey forms (instruments). *This database is not a survey.* To learn more about how the questions in this database were developed and how to interpret responses to them, see the original sources (listed on the last page).

For Children

Behavior, Behavioral Intention & Attitude Questions

Designed to understand nature-related behaviors among children.

Activity in Nature

Question #. For each statement, circle the response that best matches you.

In the past 12 months, how often have you...

a. Gone outside in nature?	Never	1 to 2 times	3 to 9 times	10+ times
b. Spent time in the outdoors with your family?	Never	1 to 2 times	3 to 9 times	10+ times
c. Gone hiking or walking in nature?	Never	1 to 2 times	3 to 9 times	10+ times
d. Spent time in the outdoors with your friends?	Never	1 to 2 times	3 to 9 times	10+ times
e. Watched wildlife?	Never	1 to 2 times	3 to 9 times	10+ times
f. Gone camping?	Never	1 to 2 times	3 to 9 times	10+ times

Nature Info-consumption

Question #. For each statement, circle the response that best matches you.

In the past month, how often have you...

a. Read a book about nature?	Never	Once	About weekly	Almost daily
b. Read about nature on the Internet?	Never	Once	About weekly	Almost daily
c. Talked about nature with your friends or family?	Never	Once	About weekly	Almost daily
d. Volunteered to help nature with your school, church, community club, or scout troop?	Never	Once	About weekly	Almost daily
e. Read a newspaper or magazine article about nature?	Never	Once	About weekly	Almost daily

Behavior, Behavioral Intention & Attitude Questions*(continued)***Activity in Nature Intentions**

Question #. For each statement, circle the response that best matches you.

How often do you plan to do each activity in the future ...

a. Spend time in the outdoors with your family?	Less	More	The same
b. Go hiking or walking in nature?	Less	More	The same
c. Go outside in nature?	Less	More	The same
d. Go camping?	Less	More	The same
e. Watch wildlife?	Less	More	The same
f. Go bicycling in nature?	Less	More	The same
g. Spend time in the outdoors with your friends?	Less	More	The same

Nature Info-Consumption Intentions

Question #. For each statement, circle the response that best matches you.

How often do you plan to do each activity in the future ...

a. Go to a museum or aquarium or other place with a display / exhibit about nature?	Less	More	The same
b. Read a newspaper or magazine article about nature?	Less	More	The same
c. Volunteer to help nature with your school, church, community club, or scout troop?	Less	More	The same
d. Read about nature on the Internet?	Less	More	The same
e. Read a book about nature?	Less	More	The same
f. Talk about nature with your friends or family?	Less	More	The same

Attitudes

Question #. For each statement, circle a number that best matches how you feel.

Statement	I strongly agree	I agree	Neither agree or disagree	I disagree	I strongly disagree
a. Spending time in nature is important to me.	5	4	3	2	1
b. Learning about nature is important to me.	5	4	3	2	1
c. I like learning about nature.	5	4	3	2	1
d. I like learning things outside of school.	5	4	3	2	1
e. Nature makes me happy.	5	4	3	2	1
f. I like nature.	5	4	3	2	1
g. I like to be outside.	5	4	3	2	1

(Selections from Gotch & Hall, 2004)

Children's Environmental Attitudes and Knowledge Scale (CHEAKS)

Designed to measure environmental attitudes and knowledge of children

Question #. For each statement, check true or false based on your feelings or actions.

a. To save water I would be willing to use less water when I bathe.	True	False
b. I would not give \$15 of my own money to help protect wild animals.	True	False
c. I would give \$15 of my own money to help protect wild animals.	True	False
d. To save water, I would be willing to turn off the water while I wash my hands.	True	False
e. I turn off the water in the sink while I brush my teeth to conserve water.	True	False
f. I have asked my family to recycle some of the things we use.	True	False
g. I am frightened to think people don't care about the environment.	True	False
h. I do not worry about environmental problems.	True	False
i. It makes me sad to see houses being built where animals use to live.	True	False

(Selections from Leeming, Dwyer & Bracken, 1995)

Identity & Natural Environment Questions

Designed to measure children's environmental identity leading to commitment to protect nature.

Question #. For each statement, circle the number that best matches how much you agree or disagree.

Statement	<i>complete disagreement</i> <i>full agreement</i>					
	1	2	3	4	5	6
a. I am willing to engage in saving the living area and conditions of [ocean, coast, rivers or sloughs].	1	2	3	4	5	6
b. When I think of [ocean, coast, rivers or sloughs], I feel disgusted.	1	2	3	4	5	6
c. I am responsible for protecting [ocean, coast, rivers or sloughs].	1	2	3	4	5	6
d. If there is no fundamental change, environmental problems will be getting worse and worse within the coming years.	1	2	3	4	5	6
e. I know a lot of things about [ocean, coast, rivers or sloughs].	1	2	3	4	5	6

(Selections from Kals & Ittner, 2003)

Modified New Ecological Paradigm Scale (NEP) for Children

Designed to measure children’s environmental worldviews

Question #. For each statement, circle a number that best matches how you feel.

Statement	Strongly agree	Agree	Not sure	Disagree	Strongly disagree
a. Humans have the right to change to natural environment to fit their needs.	5	4	3	2	1
b. When humans disturb nature it often produces terrible results.	5	4	3	2	1
c. Humans are greatly mistreating the environment.	5	4	3	2	1
d. Plants and animals have as much right as humans to live	5	4	3	2	1
e. Nature is strong enough to handle the bad effects of modern developed countries.	5	4	3	2	1
f. Nature is very delicate and easily harmed.	5	4	3	2	1

(Selections from Manoli et al, 2005):

For Teens & Young Adults
Also see the items for Children or Adults

Environmental Identity Scale

Designed to assess a teens' environmental identity

Question #. For each statement, circle a number that best matches how much you agree or disagree.

Statement	I strongly agree	I agree	Neither agree or disagree	I disagree	I strongly disagree
a. I spend a lot of time in natural settings (ocean, coast, rivers or sloughs).	5	4	3	2	1
b. Engaging in environmental behaviors is important to me.	5	4	3	2	1
c. I think of myself as a part of nature, not separate from it.	5	4	3	2	1
d. If I had enough time or money, I would certainly devote some of it to working for environmental causes.	5	4	3	2	1
e. When I am upset or stressed, I can feel better by spending some time outdoors in nature.	5	4	3	2	1
f. Living near marine life and wildlife is important to me; I would not want to live in a city all the time.	5	4	3	2	1
g. Learning about the natural world should be an important part of every child's [or person's] upbringing.	5	4	3	2	1
h. I really enjoy camping or hiking outdoors.	5	4	3	2	1
i. I would feel that an important part of my life is missing if I was not able to get out and enjoy nature from time to time.	5	4	3	2	1

(Selections from Clayton, 2003):

Place Dependence & Environmentally Responsible Behaviors Scales

Designed to study teens' connection between place dependence, place identity and environmentally responsible behavior.

Question #. For each statement, circle a number that best matches how you feel.

Statement	I strongly agree	I agree	Neither agree or disagree	I disagree	I strongly disagree
a. I get more satisfaction out of visiting this place [ocean, coast, rivers or sloughs] than any other.	5	4	3	2	1

For each of the following statements, circle a number that best matches what you do.

Statement	Usually		Sometimes		Rarely
a. I am very attached to this place.	5	4	3	2	1
b. I identify strongly with this place.	5	4	3	2	1
c. I feel like this place is part of me.	5	4	3	2	1

About how often have you...	Usually		Sometimes		Rarely
a. ...tried to learn what you can do to help solve environmental issues?	5	4	3	2	1
b. ...talked with others about environmental issues?	5	4	3	2	1
c. ...tried to convince friends to act responsibly toward the environment?	5	4	3	2	1
d. ...talked with parents / family about the environment?	5	4	3	2	1
e. ...joined in community clean up efforts?	5	4	3	2	1
f. ...conserved water by turning off the tap while washing dishes, or brushing your teeth, etc.?	5	4	3	2	1

(Selections from Vaske & Kobrin, 2001)

For Adults

Also see the items for Teens & Young Adults

Environmental Values Short Form

Designed to assess environmental values

Question #. For each statement, circle a number that best matches how you feel.

Statement	agree very much	agree	don't know/ don't care	disagree	disagree very much
a. I really enjoy nature.	5	4	3	2	1
b. It does not matter if people change parts of the environment.	5	4	3	2	1
c. Polluted water can always be cleaned up.	5	4	3	2	1
d. People have the right to change nature whenever they need to.	5	4	3	2	1
e. I like sitting quietly beside the ocean, coast, rivers or sloughs.	5	4	3	2	1
f. Walking in nature is a waste of time.	5	4	3	2	1
g. I would like to get a job working out-of-doors.	5	4	3	2	1
h. I would like to volunteer my time to help nature.+	5	4	3	2	1

(Selections from Zimmerman, 1996)

Ecocentric, anthropocentric & environmental apathy scales

Designed to measure attitudes and apathy toward environmental issues

Question #. For each statement, circle a number that best matches how you feel.

Statement	Strongly agree	Agree	Not sure	Disagree	Strongly disagree
a. I can enjoy spending time in natural settings just for the sake of being out in nature.	5	4	3	2	1
b. I need time in nature to be happy.	5	4	3	2	1
c. I don't care about environmental problems.	5	4	3	2	1
d. One of the most important reasons to keep lakes and rivers clean is so that people have a place to enjoy water sports.	5	4	3	2	1
e. It makes me sad to see natural environments destroyed.	5	4	3	2	1
f. I prefer marine sanctuaries to aquariums.	5	4	3	2	1

(Selections from Thompson & Barton, 1994)

Connectedness to Nature Scale

Designed to measure emotional connection to nature.

Question #. For each statement, circle the number that best matches how much you agree or disagree.

Statement	I strongly agree	I agree	Neither agree or disagree	I disagree	I strongly disagree
a. I have a deep understanding of how my actions affect the natural world.	5	4	3	2	1

(Selection from Mayer et al, 2004)

References: Scales for measuring impact of environmental programs

- Clayton, S. (2003). Environmental identity: A conceptual and an operational definition. In S. Clayton & S. Opatow (Eds.), *Identity and the Natural Environment: The psychological significance of nature* (pp. 45-65). Cambridge, MA: The MIT Press.
- Cordano, M., Welcomer, S.A. & Scherer, R.F. (2003). An analysis of the predictive validity of the New Ecological Paradigm Scale. *The Journal of Environmental Education*, 34(3), 22-28.
- Gotch, C. & Hall, T. (2004). Understanding nature-related behaviors among children through a Theory of Reasoned Action approach. *Environmental Education Research*, 10(2), 157-177.
- Kals, E. & Ittner, H. (2003). Children's environmental identity: Indicators and behavioral impacts. In S. Clayton & S. Opatow (Eds.), *Identity and the Natural Environment: The psychological significance of nature* (pp. 135-157). Cambridge, MA: The MIT Press.
- Leeming, F.C., Dwyer, W.O. & Bracken, B.A. (1995). Children's Environmental Attitude and Knowledge Scale: Construction and validation. *The Journal of Environmental Education*, 26(3), 22-31.
- Manoli, C.C., Johnson, B. & Dunlap, R. (2005, April 11). *Assessing children's views of the environment: Modifying the New Ecological Paradigm Scale for use with children*. Paper presented at the Annual meeting of the American Educational Research Association (AERA), Montreal, Quebec.
- Mayer, F.S. & Frantz, C.M. (2004). The connectedness to nature scale: A measure of individuals' feeling in community with nature. *Journal of Environmental Psychology*, 24, 503-515.
- Morrone, M., Mancl, K. & Carr, K. (2001). Development of a metric to test group differences in ecological knowledge as one component of environmental literacy. *The Journal of Environmental Education*, 32(4), 33-42.
- Thompson, S.C.G. & Barton, M.A. (1994). Ecocentric and anthropocentric attitudes toward the environment. *Journal of Environmental Psychology*, 14, 149-157.
- Vaske, J.J. & Kobrin, K.C. (2001). Place attachment and environmentally responsible behavior. *The Journal of Environmental Education*, 32(4), 16-21.
- Zimmermann, L.K. (1996). The development of an environmental values short form. *The Journal of Environmental Education*, 28(1), 32-37.