## Appendix table 7-9

Correct answers to scientific process questions: 1988-2006
(Percent)

| Question | $\begin{gathered} 1988 \\ (n=2,041) \end{gathered}$ | $\begin{gathered} 1990 \\ (n=2,005) \end{gathered}$ | $\begin{gathered} 1992 \\ (n=1,995) \end{gathered}$ | $\begin{gathered} 1995 \\ (n=2,006) \end{gathered}$ | $\begin{gathered} 1997 \\ (n=2,000) \end{gathered}$ | $\begin{gathered} 1999 \\ (n=1,882) \end{gathered}$ | $\begin{gathered} 2001 \\ (n=1,574) \end{gathered}$ | $\begin{gathered} 2004 \\ (n=2,025) \end{gathered}$ | $\begin{gathered} 2006 \\ (n=1,864) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Understanding of probability ${ }^{\text {a }}$. | 64 | 61 | 64 | 63 | 62 | 64 | 67 | 64 | 69 |
| If the first three children are healthy, the fourth child will have illness...................... | 84 | 78 | 80 | 77 | 78 | 78 | 78 | NA | NA |
| If the first child has illness, the next three will not............................................... | 86 | 81 | 83 | 81 | 81 | 82 | 84 | 82 | 86 |
| Each of the couple's children will have the same risk of illness............................. | 72 | 70 | 71 | 72 | 71 | 74 | 75 | 73 | 75 |
| If the couple has only three children, none will have illness. .................................. | 87 | 81 | 83 | 79 | 79 | 81 | 84 | NA | NA |
| Understanding of scientific study ${ }^{\text {b }}$. | 17 | 18 | 21 | 16 | 23 | 21 | 26 | 23 | 25 |
|  | NA | NA | NA | 26 | 36 | 34 | 38 | 46 | 42 |
|  | NA | NA | NA | 26 | 34 | 32 | 39 | 39 | 41 |

## $N A=$ not available, question not asked

${ }^{\text {an }}$ To be classified as understanding probability, survey respondent had to answer correctly: A doctor tells a couple that their genetic makeup means that they've got one in four chances of having a child with an inherited illness. (1) Does this mean that if their first child has the illness, the next three will not? and (2) Does this mean that each of the couple's children will have the same risk of suffering from the illness?
${ }^{\text {b }}$ To be classified as understanding scientific study, survey respondent had to answer: (1) When you read news stories, you see certain sets of words and terms. We are interested in how many people recognize certain kinds of terms. First, some articles refer to the results of a scientific study. When you read or hear the term scientific study, do you have a clear understanding of what it means, a general sense of what it means, or little understanding of what it means? and (2) (If "clear understanding" or "general sense" response) In your own words, could you tell me what it means to study something scientifically?
${ }^{\text {'To be classified as understanding experiment, survey respondent had to answer correctly: (1) Two scientists want to know if a certain drug is effective against high blood pressure. The first scientist wants to give the drug to } 1,000 \text { people with high blood pressur }}$ and see how many of them experience lower blood pressure levels. The second scientist wants to give the drug to 500 people with high blood pressure and not give the drug to another 500 people with high blood pressure, and see how many in both groups experience lower blood pressure levels. Which is the better way to test this drug? and (2) Why is it better to test the drug this way?
 scientifically or correct response to open-ended question about experiment, i.e., explain why it is better to test a drug using a control group

NOTE: Table includes all years for which data collected.
 National Opinion Research Center, General Social Survey (2006)

