

## Survey question wording and topline

**2019 PEW RESEARCH CENTER'S AMERICAN TRENDS PANEL  
WAVE 42 JANUARY  
FINAL TOPLINE  
JANUARY 7-21, 2019  
TOTAL N=4,464**

### OTHER QUESTIONS HELD FOR FUTURE RELEASE

#### ASK ALL:

CONF How much confidence, if any, do you have in each of the following to act in the best interests of the public? **[RANDOMIZE ITEMS, SPLIT OVER TWO SCREENS]**

	<u>A great deal</u>	<u>A fair amount</u>	<u>Not too much</u>	<u>No confidence at all</u>	<u>No Answer</u>
a. Elected officials					
Jan 7-21, 2019	4	32	50	14	<1
Nov 27-Dec 10, 2018	4	33	48	15	<1
Jan 29-Feb 13, 2018	3	22	52	23	<1
May 10-June 6, 2016	3	24	54	19	1
b. The news media					
Jan 7-21, 2019	9	38	34	19	<1
Nov 27-Dec 10, 2018	10	38	33	19	<1
<i>[Form 1 or 4, N=5,267]</i>					
Jan 29-Feb 13, 2018	8	32	35	25	<1
May 10-June 6, 2016	5	33	40	21	1
c. The military					
Jan 7-21, 2019	36	46	14	4	<1
Nov 27-Dec 10, 2018	41	41	12	4	1
Jan 29-Feb 13, 2018	39	41	15	4	<1
May 10-June 6, 2016	33	46	15	5	1
d.F1 Medical scientists <b>[FORM 1 ONLY]</b>					
Jan 7-21, 2019	35	52	11	2	<1
<i>[Form 1, N=2,226]</i>					
May 10-June 6, 2016	24	60	12	3	1
<i>[Form 1, N=1,549]</i>					
d.F2 Scientists <b>[FORM 2 ONLY]</b>					
Jan 7-21, 2019	35	51	11	2	<1
<i>[Form 2, N=2,238]</i>					
Nov 27-Dec 10, 2018	33	49	14	3	<1
Jan 29-Feb 13, 2018	27	52	17	5	<1
May 10-June 6, 2016	21	55	18	4	1
<i>[Form 2 or 3, N=3,014]</i>					
e. Religious leaders					
Jan 7-21, 2019	13	44	30	12	<1
Nov 27-Dec 10, 2018	15	47	27	11	1
Jan 29-Feb 13, 2018	9	40	34	16	1
May 10-June 6, 2016	13	39	32	14	1

**CONF continued ...**

## f. Public school principals for grades K-12

Jan 7-21, 2019	21	56	18	4	1
Nov 27-Dec 10, 2018	25	55	16	4	<1

[Form 2 or 3, N=5,351]

**TRENDS FOR COMPARISON<sup>7</sup>:**

Nov 27-Dec 10, 2018	22	55	17	5	1
May 10-June 6, 2016	13	53	27	7	1

[Form 1 or 4, N=5,267]

## g. Business leaders

Jan 7-21, 2019	6	40	43	11	<1
Nov 27-Dec 10, 2018	4	39	43	14	<1
Jan 29-Feb 13, 2018	5	40	42	13	<1
May 10-June 6, 2016	4	37	44	14	1

**ASK ALL:**POLICY1 Which of these statements comes closer to your own view, even if neither is exactly right? **[RANDOMIZE]**Jan 7-21  
2019

60	Scientists should take an active role in public policy debates about scientific issues
39	Scientists should focus on establishing sound scientific facts and stay out of public policy debates
1	No answer

**ASK ALL:**POLICY2 Which of these statements comes closer to your own view, even if neither is exactly right? **[DO NOT RANDOMIZE]**Jan 7-21  
2019

54	Public opinion should play an important role to guide policy decisions about scientific issues
44	Public opinion should NOT play an important role to guide policy decisions about scientific issues because these issues are too complex for the average person to understand
1	No answer

<sup>7</sup> For forms 1 and 4 in a December 2018 survey and for a June 2016 survey, the wording of this item was "public school principals and superintendents for grades K-12."

**TREND FOR COMPARISON:**

Pew Research Center survey conducted by telephone: Which of these statements best describes your views, even if neither is exactly right?

	<i>Aug 15-25</i> <u>2014</u>
<i>(One) Public opinion should play an important role to guide policy decisions about scientific issues, [OR]</i>	60
<i>(Two) Public opinion should NOT play an important role to guide policy decisions about scientific issues because these issues are too complex for the average person to understand</i>	35
<i>Neither/Both (VOL.)</i>	2
<i>Don't know/Refused (VOL.)</i>	2

**ASK ALL:**

POLICY3 In general, would you say scientific experts are... **[DO NOT RANDOMIZE]**

Jan 7-21

2019

45	Usually BETTER at making good policy decisions about scientific issues than other people
7	Usually WORSE at making good policy decisions about scientific issues than other people
48	NEITHER BETTER NOR WORSE at making good policy decisions about scientific issues than other people
1	No answer

**RANDOMIZE SECTIONS F1A, F1B AND F1C AND RANDOMIZE SECTIONS F2A, F2B, AND F2C****ASK FORM 1 [N=2,226]:**

RQ1\_F1A Medical research scientists conduct research to investigate human diseases, and test methods to prevent and treat them.

In general, would you say your view of medical research scientists is...

**ASK FORM 2 [N=2,238]:**

PQ1\_F2A Medical doctors provide patients with diagnoses of disease and/or treatment recommendations to promote, maintain or restore a patient's health.

In general, would you say your view of medical doctors is...

	Medical research <u>scientists</u>	<u>Medical doctors</u>
Mostly positive	68	74
Mostly negative	7	8
Neither positive nor negative	24	18
No answer	1	<1

**ASK FORM 1 [N=2,226]:**

RQ2\_F1A How much, if anything, do you know about what medical research scientists do?

**ASK FORM 2 [N=2,238]:**

PQ2\_F2A How much, if anything, do you know about what medical doctors do?

	Medical research	
	<u>scientists</u>	<u>Medical doctors</u>
A lot	16	46
A little	67	48
Nothing at all	17	6
No answer	<1	<1

**ASK KNOW A LOT/A LITTLE ABOUT MEDICAL RESEARCH SCIENTISTS (RQ2\_F1A=1,2) [N=1,897]:**RQ3\_F1A Is what you know about medical research scientists because you ... **[RANDOMIZE ITEMS; MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]****ASK KNOW A LOT/A LITTLE ABOUT MEDICAL DOCTORS (PQ2\_F2A=1,2) [N=2,127]:**PQ3\_F2A Is what you know about medical doctors because you ... **[RANDOMIZE ITEMS; MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]****Based on those who know a lot/a little about medical research scientists [N=1,897]; medical doctors [N=2,127]:**

- a. Know someone who does this

	<b>Based on those asked</b>	
	Medical research	
	<u>scientists</u>	<u>Medical doctors</u>
Yes, know someone who does this	32	69
No, do not know someone who does this	67	29
No answer	1	1

**Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Medical research	
	<u>scientists</u>	<u>Medical doctors</u>
Know a lot/a little about this group	83	94
Yes, know someone who does this	27	65
No, do not know someone who does this	55	28
No answer to RQ3_F1Aa/PQ3_F2Aa	1	1
Know nothing at all about this group	17	6
No answer to RQ2_F1A/PQ2_F2A	<1	<1

**RQ3\_F1A and PQ3\_F2A continued ...**

**Based on those who know a lot/a little about medical research scientists [N=1,897]; medical doctors [N=2,127]:**

- b. Learned about this in school

	<b>Based on those asked</b>	
	Medical research	
	<u>scientists</u>	<u>Medical doctors</u>
Yes, learned about this in school	50	51
No, did not learn about this in school	49	49
No answer	1	1

**Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Medical research	
	<u>scientists</u>	<u>Medical doctors</u>
Know a lot/a little about this group	83	94
Yes, learned about this in school	41	47
No, did not learn about this in school	40	45
No answer to RQ3_F1Ab/PQ3_F2Ab	1	1
Know nothing at all about this group	17	6
No answer to RQ2_F1A/PQ2_F2A	<1	<1

**Based on those who know a lot/a little about medical research scientists [N=1,897]; medical doctors [N=2,127]:**

- c. Learned about this in your job

	<b>Based on those asked</b>	
	Medical research	
	<u>scientists</u>	<u>Medical doctors</u>
Yes, learned about this in my job	22	27
No, did not learn about this in my job	77	72
No answer	1	1

**Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Medical research	
	<u>scientists</u>	<u>Medical doctors</u>
Know a lot/a little about this group	83	94
Yes, learned about this in my job	18	25
No, did not learn about this in my job	64	67
No answer to RQ3_F1Ac/PQ3_F2Ac	1	1
Know nothing at all about this group	17	6
No answer to RQ2_F1A/PQ2_F2A	<1	<1

**RQ3\_F1A and PQ3\_F2A continued ...**

**Based on those who know a lot/a little about medical research scientists [N=1,897]; medical doctors [N=2,127]:**

- d. Have heard or read about this in the news

	<b>Based on those asked</b>	
	Medical research <u>scientists</u>	<u>Medical doctors</u>
Yes, have heard or read about this in the news	85	74
No, have not heard or read about this in the news	15	24
No answer	1	2

**Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Medical research <u>scientists</u>	<u>Medical doctors</u>
Know a lot/a little about this group	83	94
Yes, have heard or read about this in the news	70	69
No, have not heard or read about this in the news	12	23
No answer to RQ3_F1Ad/PQ3_F2Ad	<1	1
Know nothing at all about this group	17	6
No answer to RQ2_F1A/PQ2_F2A	<1	<1

**ASK FORM 1 [N=2,226]:**

RQ4\_F1A Thinking about medical research scientists, how often would you say they ...  
**[RANDOMIZE ITEMS, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]**

**ASK FORM 2 [N=2,238]:**

PQ4\_F2A Thinking about medical doctors, how often would you say they ... **[RANDOMIZE ITEMS, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]**

- a. **ASK FORM 1:** Do a good job conducting research  
**ASK FORM 2:** Do a good job providing diagnoses and treatment recommendations

	Medical research <u>scientists</u>	<u>Medical doctors</u>
All or most of the time	43	49
Some of the time	47	42
Only a little of the time	8	7
None of the time	2	2
No answer	1	1

**RQ4\_F1A and PQ4\_F2A continued ...**

- b. **ASK FORM 1:** Provide fair and accurate information when making statements about their research

**ASK FORM 2:** Provide fair and accurate information when making recommendations

	Medical research	
	<u>scientists</u>	<u>Medical doctors</u>
All or most of the time	32	48
Some of the time	53	43
Only a little of the time	12	6
None of the time	2	2
No answer	1	<1

- c. Admit mistakes and take responsibility for them

	Medical research	
	<u>scientists</u>	<u>Medical doctors</u>
All or most of the time	13	12
Some of the time	48	46
Only a little of the time	30	32
None of the time	9	9
No answer	1	1

- d. Are transparent about potential conflicts of interest with industry groups in their work

	Medical research	
	<u>scientists</u>	<u>Medical doctors</u>
All or most of the time	15	15
Some of the time	50	50
Only a little of the time	27	24
None of the time	7	9
No answer	1	2

- e. **ASK FORM 1:** Care about the best interests of the public  
**ASK FORM 2:** Care about the best interests of their patients

	Medical research	
	<u>scientists</u>	<u>Medical doctors</u>
All or most of the time	35	57
Some of the time	47	33
Only a little of the time	14	7
None of the time	3	2
No answer	1	1

**ASK FORM 1 [N=2,226]:**

RQ5\_F1A Overall, do you think research misconduct by medical research scientists is...

**ASK FORM 2 [N=2,238]:**

PQ5\_F2A Overall, do you think professional misconduct by medical doctors is...

	Medical research <u>scientists</u>	<u>Medical doctors</u>
A very big problem	14	15
A moderately big problem	34	35
A small problem	46	44
Not a problem at all	5	5
No answer	1	1

**ASK FORM 1 [N=2,226]:**RQ6\_F1A When you hear or read news stories about research misconduct by medical research scientists, do you think of these cases as... **[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]****ASK FORM 2 [N=2,238]:**PQ6\_F2A When you hear or read news stories about professional misconduct by medical doctors, do you think of these cases as... **[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]**

	Medical research scientists	Medical doctors
Isolated incidents	57	60
Signs of a broader problem	42	39
No answer	1	1

**ASK FORM 1 [N=2,226]:**RQ7\_F1A When you hear about problems with research misconduct among medical research scientists, which comes closer to your view, even if neither is exactly right? **[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]**

	Medical research <u>scientists</u>
Most medical research scientists have good intentions, it's the research system that's broken	66
The research system can work fine, it's the medical research scientists that are the problem	30
No answer	3

**ASK FORM 2 [N=2,238]:**PQ7\_F2A When you hear about problems with professional misconduct among medical doctors, which comes closer to your view, even if neither is exactly right? **[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]**

	<u>Medical doctors</u>
Most medical doctors have good intentions, it's the system that's broken	72
The system can work fine, it's the medical doctors that are the problem	26
No answer	2



**ASK FORM 1 [N=2,226]:**

RQ8\_F1A How often, if at all, do you think medical research scientists face serious consequences if they engage in research misconduct?

**ASK FORM 2 [N=2,238]:**

PQ8\_F2A How often, if at all, do you think medical doctors face serious consequences if they engage in professional misconduct?

	Medical research <u>scientists</u>	Medical doctors <u>Medical doctors</u>
All or most of the time	13	20
Some of the time	41	50
Only a little of the time	38	27
None of the time	7	3
No answer	1	1

**ASK FORM 1 [N=2,226]:**

RQ1\_F1B Environmental research scientists conduct research on the environment and how plants, animals and other organisms are affected by it.

In general, would you say your view of environmental research scientists is...

**ASK FORM 2 [N=2,238]:**

PQ1\_F2B Environmental health specialists often advise organizations in a local community about environmental risks to human health such as air and water pollution and how to clean up polluted areas.

In general, would you say your view of environmental health specialists is...

	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
Mostly positive	57	60
Mostly negative	14	11
Neither positive nor negative	29	28
No answer	1	1

**ASK FORM 1 [N=2,226]:**

RQ2\_F1B How much, if anything, do you know about what environmental research scientists do?

**ASK FORM 2 [N=2,238]:**

PQ2\_F2B How much, if anything, do you know about what environmental health specialists do?

	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
A lot	16	12
A little	65	63
Nothing at all	19	25
No answer	<1	<1

**ASK KNOW A LOT/A LITTLE ABOUT ENVIRONMENTAL RESEARCH SCIENTISTS (RQ2\_F1B=1,2)  
[N=1,819]:**

RQ3\_F1B Is what you know about environmental research scientists because you ... [RANDOMIZE ITEMS; MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]

**ASK KNOW A LOT/A LITTLE ABOUT ENVIRONMENTAL HEALTH SPECIALISTS (PQ2\_F2B=1,2)  
[N=1,687]:**

PQ3\_F2B Is what you know about environmental health specialists because you ... [RANDOMIZE ITEMS; MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]

**Based on those who know a lot/a little about environmental research scientists [N=1,819];  
environmental health specialists [N=1,687]:**

- a. Know someone who does this

	<b>Based on those asked</b>	
	Environmental research scientists	Environmental health specialists
Yes, know someone who does this	25	24
No, do not know someone who does this	73	74
No answer	1	2

**Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Environmental research scientists	Environmental health specialists
Know a lot/a little about this group	81	74
Yes, know someone who does this	21	18
No, do not know someone who does this	59	55
No answer to RQ3_F1Ba/PQ3_F2Ba	1	1
Know nothing at all about this group	19	25
No answer to RQ2_F1B/PQ2_F2B	<1	<1

- b. Learned about this in school

**Based on those who know a lot/a little about environmental research scientists [N=1,819];  
environmental health specialists [N=1,687]:**

	<b>Based on those asked</b>	
	Environmental research scientists	Environmental health specialists
Yes, learned about this in school	51	44
No, did not learn about this in school	48	55
No answer	1	1

**RQ3\_F1B and PQ3\_F2B continued ...****Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
Know a lot/a little about this group	81	74
Yes, learned about this in school	41	33
No, did not learn about this in school	39	41
No answer to RQ3_F1Bb/PQ3_F2Bb	1	1
Know nothing at all about this group	19	25
No answer to RQ2_F1B/PQ2_F2B	<1	<1

c. Learned about this in your job

**Based on those who know a lot/a little about environmental research scientists [N=1,819];  
environmental health specialists [N=1,687]:**

	<b>Based on those asked</b>	
	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
Yes, learned about this in my job	18	28
No, did not learn about this in my job	81	71
No answer	2	1

**Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
Know a lot/a little about this group	81	74
Yes, learned about this in my job	14	21
No, did not learn about this in my job	65	53
No answer to RQ3_F1Bc/PQ3_F2Bc	1	1
Know nothing at all about this group	19	25
No answer to RQ2_F1B/PQ2_F2B	<1	<1

**RQ3\_F1B and PQ3\_F2B continued ...**

d. Have heard or read about this in the news

**Based on those who know a lot/a little about environmental research scientists [N=1,819]; environmental health specialists [N=1,687]:**

	<b>Based on those asked</b>	
	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
Yes, have heard or read about this in the news	84	80
No, have not heard or read about this in the news	15	19
No answer	1	1

**Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
Know a lot/a little about this group	81	74
Yes, have heard or read about this in the news	68	60
No, have not heard or read about this in the news	12	14
No answer to RQ3_F1Bd/PQ3_F2Bd	1	1
Know nothing at all about this group	19	25
No answer to RQ2_F1B/PQ2_F2B	<1	<1

**ASK FORM 1 [N=2,226]:**

RQ4\_F1B Thinking about environmental research scientists, how often would you say they ...  
[RANDOMIZE ITEMS, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]

**ASK FORM 2 [N=2,238]:**

PQ4\_F2B Thinking about environmental health specialists, how often would you say they ...  
[RANDOMIZE ITEMS, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]

- a. **ASK FORM 1:** Do a good job conducting research  
**ASK FORM 2:** Do a good job providing recommendations about how to address risks to human health from the environment

	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
All or most of the time	40	39
Some of the time	45	47
Only a little of the time	10	9
None of the time	2	3
No answer	2	3

**RQ4\_F1B and PQ4\_F2B continued ...**

- b. **ASK FORM 1:** Provide fair and accurate information when making statements about their research

**ASK FORM 2:** Provide fair and accurate information when making recommendations

	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
All or most of the time	35	35
Some of the time	45	48
Only a little of the time	15	11
None of the time	3	3
No answer	2	2

- c. Admit mistakes and take responsibility for them

	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
All or most of the time	16	14
Some of the time	47	49
Only a little of the time	26	24
None of the time	9	11
No answer	2	3

- d. Are transparent about potential conflicts of interest with industry groups in their work

	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
All or most of the time	17	17
Some of the time	49	50
Only a little of the time	24	22
None of the time	7	8
No answer	2	3

- e. **ASK FORM 1:** Care about the best interests of the public

**ASK FORM 2:** Care about the best interests of people in the community

	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
All or most of the time	38	43
Some of the time	43	41
Only a little of the time	13	10
None of the time	4	4
No answer	2	3

**ASK FORM 1 [N=2,226]:**

RQ5\_F1B Overall, do you think research misconduct by environmental research scientists is...

**ASK FORM 2 [N=2,238]:**

PQ5\_F2B Overall, do you think professional misconduct by environmental health specialists is...

	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
A very big problem	13	10
A moderately big problem	29	26
A small problem	46	47
Not a problem at all	10	14
No answer	1	3

**ASK FORM 1 [N=2,226]:**RQ6\_F1B When you hear or read news stories about research misconduct by environmental research scientists, do you think of these cases as... **[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]****ASK FORM 2 [N=2,238]:**PQ6\_F2B When you hear or read news stories about professional misconduct by environmental health specialists, do you think of these cases as... **[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]**

	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
Isolated incidents	56	62
Signs of a broader problem	42	35
No answer	1	3

**ASK FORM 1 [N=2,226]:**RQ7\_F1B When you hear about problems with research misconduct among environmental research scientists, which comes closer to your view, even if neither is exactly right? **[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]**

	Environmental research <u>scientists</u>
Most environmental research scientists have good intentions, it's the research system that's broken	65
The research system can work fine, it's the environmental research scientists that are the problem	32
No answer	3

**ASK FORM 2 [N=2,238]:**

PQ7\_F2B When you hear about problems with professional misconduct among environmental health specialists, which comes closer to your view, even if neither is exactly right?  
**[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]**

	Environmental health <u>specialists</u>
Most environmental health specialists have good intentions, it's the system that's broken	72
The system can work fine, it's the environmental health specialists that are the problem	24
No answer	4

**ASK FORM 1 [N=2,226]:**

RQ8\_F1B How often, if at all, do you think environmental research scientists face serious consequences if they engage in research misconduct?

**ASK FORM 2 [N=2,238]:**

PQ8\_F2B How often, if at all, do you think environmental health specialists face serious consequences if they engage in professional misconduct?

	Environmental research <u>scientists</u>	Environmental health <u>specialists</u>
All or most of the time	12	11
Some of the time	39	44
Only a little of the time	36	32
None of the time	11	10
No answer	1	3

**ASK FORM 1 [N=2,226]:**

RQ1\_F1C Nutrition research scientists conduct research about the effects of food on health. In general, would you say your view of nutrition research scientists is...

**ASK FORM 2 [N=2,238]:**

PQ1\_F2C Dietitians advise people on what to eat using their training in nutrition in order to promote health and manage disease. In general, would you say your view of dietitians is...

	Nutrition research <u>scientists</u>	<u>Dietitians</u>
Mostly positive	51	60
Mostly negative	11	7
Neither positive nor negative	38	32
No answer	<1	<1

**ASK FORM 1 [N=2,226]:**

RQ2\_F1C How much, if anything, do you know about what nutrition research scientists do?

**ASK FORM 2 [N=2,238]:**

PQ2\_F2C How much, if anything, do you know about what dietitians do?

	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
A lot	10	25
A little	63	65
Nothing at all	26	11
No answer	<1	<1

**ASK IF KNOW A LOT/A LITTLE ABOUT NUTRITION RESEARCH SCIENTISTS (RQ2\_F1C=1,2) [N=1,692]:**RQ3\_F1C Is what you know about nutrition research scientists because you ... **[RANDOMIZE ITEMS; MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]****ASK IF KNOW A LOT/A LITTLE ABOUT DIETITIANS (PQ2\_F2C=1,2) [N=2,041]:**PQ3\_F2C Is what you know about dietitians because you ... **[RANDOMIZE ITEMS; MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]****Based on those who know a lot/a little about nutrition research scientists [N=1,692]; dietitians [N=2,041]:**

- a. Know someone who does this

	<b>Based on those asked</b>	
	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
Yes, know someone who does this	22	46
No, do not know someone who does this	77	53
No answer	1	1

**Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
Know a lot/a little about this group	74	89
Yes, know someone who does this	16	41
No, do not know someone who does this	57	47
No answer to RQ3_F1Ca/PQ3_F2Ca	<1	1
Know nothing at all about this group	26	11
No answer to RQ2_F1C/PQ2_F2C	<1	<1



**RQ3\_F1C and PQ3\_F2C continued ...**

**Based on those who know a lot/a little about nutrition research scientists [N=1,692]; dietitians [N=2,041]:**

- b. Learned about this in school

	<b>Based on those asked</b>	
	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
Yes, learned about this in school	45	44
No, did not learn about this in school	54	55
No answer	1	1

**Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
Know a lot/a little about this group	74	89
Yes, learned about this in school	33	39
No, did not learn about this in school	40	49
No answer to RQ3_F1Cb/PQ3_F2Cb	1	1
Know nothing at all about this group	26	11
No answer to RQ2_F1C/PQ2_F2C	<1	<1

**Based on those who know a lot/a little about nutrition research scientists [N=1,692]; dietitians [N=2,041]:**

- c. Learned about this in your job

	<b>Based on those asked</b>	
	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
Yes, learned about this in my job	16	22
No, did not learn about this in my job	83	78
No answer	1	1

**Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
Know a lot/a little about this group	74	89
Yes, learned about this in my job	12	19
No, did not learn about this in my job	61	69
No answer to RQ3_F1Cc/PQ3_F2Cc	1	1
Know nothing at all about this group	26	11
No answer to RQ2_F1C/PQ2_F2C	<1	<1

**RQ3\_F1C and PQ3\_F2C continued ...**

**Based on those who know a lot/a little about nutrition research scientists [N=1,692]; dietitians [N=2,041]:**

- d. Have heard or read about this in the news

	<b>Based on those asked</b>	
	Nutrition research <u>scientists</u>	<u>Dietitians</u>
Yes, have heard or read about this in the news	79	64
No, have not heard or read about this in the news	20	35
No answer	1	1

**Based on total [N=4,464]:**

	<b>Based on U.S. adults</b>	
	Nutrition research <u>scientists</u>	<u>Dietitians</u>
Know a lot/a little about this group	74	89
Yes, have heard or read about this in the news	59	57
No, have not heard or read about this in the news	15	31
No answer to RQ3_F1Cd/PQ3_F2Cd	1	1
Know nothing at all about this group	26	11
No answer to RQ2_F1C/PQ2_F2C	<1	<1

**ASK FORM 1 [N=2,226]:**

RQ4\_F1C Thinking about nutrition research scientists, how often would you say they ...  
[RANDOMIZE ITEMS, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]

**ASK FORM 2 [N=2,238]:**

PQ4\_F2C Thinking about dietitians, how often would you say they ... [RANDOMIZE ITEMS,  
MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]

- a. **ASK FORM 1:** Do a good job conducting research  
**ASK FORM 2:** Do a good job providing recommendations about healthy eating

	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
All or most of the time	28	54
Some of the time	57	37
Only a little of the time	10	5
None of the time	3	2
No answer	2	2

**RQ4\_F1C and PQ4\_F2C continued ...**

- b. **ASK FORM 1:** Provide fair and accurate information when making statements about their research

**ASK FORM 2:** Provide fair and accurate information when making recommendations

	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
All or most of the time	24	47
Some of the time	56	41
Only a little of the time	15	8
None of the time	4	2
No answer	2	2

- c. Admit mistakes and take responsibility for them

	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
All or most of the time	11	18
Some of the time	46	50
Only a little of the time	30	21
None of the time	11	8
No answer	2	4

- d. Are transparent about potential conflicts of interest with industry groups in their work

	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
All or most of the time	12	19
Some of the time	49	50
Only a little of the time	28	21
None of the time	9	7
No answer	2	4

- e. **ASK FORM 1:** Care about the best interests of the public  
**ASK FORM 2:** Care about the best interests of their patients

	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
All or most of the time	29	60
Some of the time	51	31
Only a little of the time	13	5
None of the time	5	3
No answer	2	1

**ASK FORM 1 [N=2,226]:**

RQ5\_F1C Overall, do you think research misconduct by nutrition research scientists is...

**ASK FORM 2 [N=2,238]:**

PQ5\_F2C Overall, do you think professional misconduct by dietitians is...

	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
A very big problem	12	6
A moderately big problem	31	18
A small problem	45	51
Not a problem at all	10	23
No answer	2	2

**ASK FORM 1 [N=2,226]:**RQ6\_F1C When you hear or read news stories about research misconduct by nutrition research scientists, do you think of these cases as... **[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]****ASK FORM 2 [N=2,238]:**PQ6\_F2C When you hear or read news stories about professional misconduct by dietitians, do you think of these cases as... **[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]**

	Nutrition research	
	<u>scientists</u>	<u>Dietitians</u>
Isolated incidents	55	75
Signs of a broader problem	43	22
No answer	2	3

**ASK FORM 1 [N=2,226]:**RQ7\_F1C When you hear about problems with research misconduct among nutrition research scientists, which comes closer to your view, even if neither is exactly right? **[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]**

	Nutrition research
	<u>scientists</u>
Most nutrition research scientists have good intentions, it's the research system that's broken	67
The research system can work fine, it's the nutrition research scientists that are the problem	29
No answer	4

**ASK FORM 2 [N=2,238]:**PQ7\_F2C When you hear about problems with professional misconduct among dietitians, which comes closer to your view, even if neither is exactly right? **[RANDOMIZE, MAINTAIN SAME ORDER FOR EACH TYPE OF SCIENTIST]**

	<u>Dietitians</u>
Most dietitians have good intentions, it's the system that's broken	72
The system can work fine, it's the dietitians that are the problem	25
No answer	4

**ASK FORM 1 [N=2,226]:**

RQ8\_F1C How often, if at all, do you think nutrition research scientists face serious consequences if they engage in research misconduct?

**ASK FORM 2 [N=2,238]:**

PQ8\_F2C How often, if at all, do you think dietitians face serious consequences if they engage in professional misconduct?

	Nutrition research <u>scientists</u>	<u>Dietitians</u>
All or most of the time	8	13
Some of the time	38	37
Only a little of the time	41	36
None of the time	13	12
No answer	2	3

**ASK ALL:**

SCM4 How important do you think each of the following types of scientific research is for society? **[RANDOMIZE ITEMS]**

- a. Scientific research that has immediate practical applications

Jan 7-21

2019

64	Essential
29	Important, but not essential
4	Not too important
2	Not important at all
1	No answer

- b. Scientific research that advances knowledge, even if there are no immediate benefits

Jan 7-21

2019

47	Essential
43	Important, but not essential
8	Not too important
2	Not important at all
1	No answer

**[DISPLAY BEFORE FIRST QUESTION IN THE Q6F1-Q9F1 SERIES:]** Thinking about scientific research findings in general ...

**ASK FORM 1 [N=2,226]:**

Q6F1 When you hear that scientific research findings have been reviewed by an independent committee, does this make you...

Jan 7-21

2019

52	Trust the research findings MORE
10	Trust the research findings LESS
37	Makes NO DIFFERENCE either way
1	No answer

**ASK FORM 1 [N=2,226]:**

Q7F1 When you hear that data used in scientific research is being made openly available to the public, does this make you...

Jan 7-21

2019

57	Trust the research findings MORE
8	Trust the research findings LESS
34	Makes NO DIFFERENCE either way
1	No answer

**ASK FORM 1 [N=2,226]:**

Q8F1 When you hear about scientific research that has been funded by the federal government, does this make you...

Jan 7-21

2019

23	Trust the research findings MORE
28	Trust the research findings LESS
48	Makes NO DIFFERENCE either way
1	No answer

**ASK FORM 1 [N=2226]:**

Q9F1 When you hear about scientific research that has been funded by an industry group, does this make you...

Jan 7-21

2019

10	Trust the research findings MORE
58	Trust the research findings LESS
32	Makes NO DIFFERENCE either way
1	No answer

**[DISPLAY BEFORE FIRST QUESTION IN THE Q6F2-Q9F2 SERIES:]** Thinking about recommendations from science practitioners (such as medical doctors, dietitians or environmental health specialists), in general ...

**ASK FORM 2 [N=2,238]:**

Q6F2 When you hear that a science practitioner's recommendation is based on a review from an independent committee, does this make you...

Jan 7-21

2019

43	Trust the recommendation MORE
17	Trust the recommendation LESS
38	Makes NO DIFFERENCE either way
1	No answer

**ASK FORM 2 [N=2,238]:**

Q7F2 When you hear that a science practitioner is open to getting a second opinion on their recommendation, does this make you...

Jan 7-21

2019

68	Trust the recommendation MORE
7	Trust the recommendation LESS
23	Makes NO DIFFERENCE either way
2	No answer

**ASK FORM 2 [N=2,238]:**

Q8F2 When you hear that a science practitioner has received financial incentives from the federal government related to their work, does this make you...

Jan 7-21

2019

14	Trust the recommendation MORE
37	Trust the recommendation LESS
48	Makes NO DIFFERENCE either way
1	No answer

**ASK FORM 2 [N=2,238]:**

Q9F2 When you hear that a science practitioner has received financial incentives from an industry group related to their work, does this make you...

Jan 7-21

2019

10	Trust the recommendation MORE
62	Trust the recommendation LESS
27	Makes NO DIFFERENCE either way
1	No answer

**OTHER QUESTIONS HELD FOR FUTURE RELEASE****ASK ALL:**

SCM2 Which of the following best describes what you think about the scientific method?  
[RANDOMIZE]

Jan 7-21

2019

63	The scientific method generally produces accurate conclusions
	The scientific method can be used to produce any conclusion the
35	research wants
2	No answer

**ASK ALL:**

SCM3 Which of these statements comes closer to your own view, even if neither is exactly right? [RANDOMIZE]

Jan 7-21

2019

55	Scientists make judgments based solely on the facts
44	Scientists' judgments are just as likely to be biased as other people's
1	No answer

**OTHER QUESTIONS HELD FOR FUTURE RELEASE**

See "[What Americans Know and Don't Know About Science](#)" for more on KNOW1 through KNOW14

**ASK ALL:**

KNOW1 Here's a different kind of question. (If you don't know the answer, select "Not sure.") As far as you know...

Oil, natural gas and coal are examples of...<sup>8</sup> [RANDOMIZE OPTIONS 1-4]

Jan 7-21

2019

68	Fossil fuels (Correct)
32	NET Incorrect/Not sure/No answer
5	Biofuels
3	Geothermal resources
6	Renewable resources
17	Not sure
1	No answer

<sup>8</sup> This question was adapted with permission from the Educational Testing Service (ETS) (2018), The Praxis Study Companion, Middle School Science.



**ASK ALL:**

KNOW2

A scientist is conducting a study to determine how well a new medication treats ear infections. The scientist tells the participants to put 10 drops in their infected ear each day. After two weeks, all participants' ear infections had healed.

Which of the following changes to the design of this study would most improve the ability to test if the new medication effectively treats ear infections? **[RANDOMIZE OPTIONS 1-4]**

Jan 7-21

2019

60	Create a second group of participants with ear infections who do not use any ear drops (Correct)
40	NET Incorrect/Not sure/No answer
5	Create a second group of participants with ear infections who use 15 drops a day
13	Have participants use ear drops for only 1 week
5	Have participants put ear drops in both their infected ear and healthy ear
16	Not sure
1	No answer

**ASK ALL:**

KNOW3

Which of the following is an example of genetic engineering? **[RANDOMIZE OPTIONS 1-4]**

Jan 7-21

2019

56	Inserting a gene into plants that makes them resistant to insects (Correct)
44	NET Incorrect/Not sure/No answer
6	Growing a whole plant from a single cell
8	Finding the sequences of bases in plant DNA
9	Attaching the root of one type of plant to the stem of another type of plant
21	Not sure
1	No answer

**ASK ALL:**

KNOW4

What is the main cause of seasons on the Earth? **[RANDOMIZE OPTIONS 1-4]**

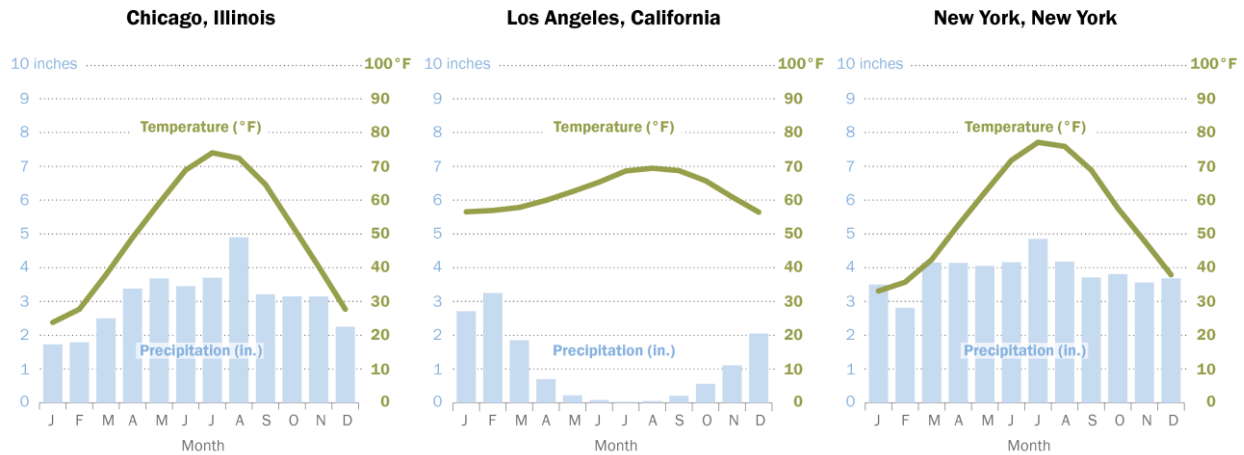
Jan 7-21

2019

63	The tilt of the Earth's axis in relation to the Sun (Correct)
37	NET Incorrect/Not sure/No answer
11	The distance between the Earth and the Sun
7	The speed that the Earth rotates around the Sun
4	Changes in the amount of energy coming from the Sun
15	Not sure
1	No answer

**ASK ALL:**  
KNOW5

These graphs show the monthly precipitation and average temperature for three cities in the United States over the course of one year. **[RANDOMIZE ORDER OF GRAPHS]**



Based on the graphs, which city has the greatest annual range of temperatures? **[RANDOMIZE OPTIONS 1-3 IN SAME ORDER OF GRAPHS]**

Jan 7-21

2019

- 59 Chicago, Illinois (Correct)
- 41 NET Incorrect/Not sure/No answer
- 20 New York, New York
- 9 Los Angeles, California
- 3 They all have the same annual temperature range
- 8 Not sure
- 1 No answer

**ASK ALL:**  
KNOW6

The time a computer takes to start has increased dramatically. One possible explanation for this is that the computer is running out of memory.

This explanation is a scientific... **[RANDOMIZE OPTIONS 1-4]**

Jan 7-21

2019

- 52 Hypothesis (Correct)
- 48 NET Incorrect/Not sure/No answer
- 8 Conclusion
- 4 Experiment
- 19 Observation
- 17 Not sure
- 1 No answer

**ASK ALL:**

KNOW7

Many diseases have an incubation period. Which of the following best describes what an incubation period is? **[RANDOMIZE OPTIONS 1-4]**

Jan 7-21

2019

76	The period during which someone has an infection, but is not showing symptoms (Correct)
24	NET Incorrect/Not sure/No answer
4	The recovery period after being sick
2	The effect of a disease on babies
5	The period during which someone builds up immunity to a disease
12	Not sure
1	No answer

**NO QUESTION KNOWS****ASK ALL:**

KNOW9

When large areas of forest are removed so land can be converted for other uses, such as farming, which of the following occurs?<sup>9</sup> **[RANDOMIZE OPTIONS 1-4]**

Jan 7-21

2019

60	Increased erosion (Correct)
40	NET Incorrect/Not sure/No answer
3	Colder temperature
14	Decreased carbon dioxide
3	Greater oxygen production
20	Not sure
1	No answer

**ASK ALL:**

KNOW10

An antacid relieves an overly acidic stomach because the main components of antacids are... **[RANDOMIZE RESPONSE OPTIONS 1-4]**

Jan 7-21

2019

39	Bases (Correct)
61	NET Incorrect/Not sure/No answer
11	Acids
13	Neutral
3	Isotopes
33	Not sure
1	No answer

<sup>9</sup> This question was adapted with permission from the Florida Department of Education (2012), Statewide Science Assessment Test Item Specifications, Version 2, Grade 8.

**ASK ALL:**

KNOW11 Which of these is a major concern about the overuse of antibiotics? [**RANDOMIZE OPTIONS 1-4**]

Jan 7-21

2019

79	It can lead to antibiotic-resistant bacteria (Correct)
21	NET Incorrect/Not sure/No answer
2	There will be an antibiotic shortage
5	Antibiotics can cause secondary infections
2	Antibiotics will get into the water system
11	Not sure
1	No answer

**ASK ALL:**

KNOW12 A car travels at a constant speed of 40 miles per hour. How far does the car travel in 45 minutes? [**DO NOT RANDOMIZE**]

Jan 7-21

2019

57	30 miles (Correct)
43	NET Incorrect/Not sure/No answer
4	25 miles
14	35 miles
9	40 miles
15	Not sure
1	No answer

**NO QUESTION KNOW13****TOTAL NUMBER CORRECT KNOW1 THROUGH KNOW12:**

Jan 7-21

2019

16	11 out of 11
13	10 out of 10
10	9 out of 11
8	8 out of 11
9	7 out of 11
8	6 out of 11
7	5 out of 11
6	4 out of 11
6	3 out of 11
6	2 out of 11
5	1 out of 11
5	0 out of 11
39	High science knowledge (9-11 correct)
32	Medium science knowledge (5-8 correct)
29	Low science knowledge (0-4 correct)

**ASK ALL:**

KNOW14

Based on what you have heard or read, which of the following statements best describes the scientific method? **[RANDOMIZE OPTIONS 1-2]**

Jan 7-21

2019

67

The scientific method produces findings meant to be continually tested and updated over time

15

The scientific method identifies unchanging core principles and truths

17

Not sure

1

No answer