

# A Measurement Gap? Effect of Survey Instruments on Partisan Knowledge Gaps

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## Abstract

Conventional wisdom suggests large, persistent gaps between partisans' stores of political knowledge, fanning concerns about democratic accountability. We reconsider the frequency and size of these “partisan knowledge gaps,” . Our findings suggest that knowledge gaps—when they do exist—stem more from motivated responding than genuine differences in factual knowledge.

Factual knowledge about politics has long been viewed by scholars as key to democratic competence. Higher levels of political knowledge correspond to a number of normatively desirable outcomes, including higher levels of political tolerance and support for democratic norms, more active participation in politics, and more stable and consistent opinions on political matters ([Converse 1964](#); [Delli Carpini and Keeter 1996](#); [Galston 2001](#)). Political knowledge also helps facilitate connections between individual group identities and policy views, which can then be applied to evaluations of public officials and parties in a way that increases democratic accountability ([Delli Carpini and Keeter 1996](#)).

Political knowledge's centrality to democratic health is perhaps why so many are troubled by the fact that Democrats and Republicans appear to differ in their knowledge of politics. Partisans' biased interpretation and retention of political facts appears in public opinion data reaching at least as far back as the 1980s (e.g., [Bartels 2002](#); [Jerit and Barabas 2012](#)). As such, the idea of large partisan knowledge gaps—differences in the types of information that Democrats and Republicans know—has become axiomatic in the political science. Indeed, as [Bullock et al. \(2015\)](#) note, conventional wisdom in the discipline that “a persistent pattern in American public opinion is the presence of large differences between Democrats and Republicans in statements of factual beliefs” (520). Everyday Americans seem to be catching on as well. A poll conducted by the Pew Research Center in 2018 demonstrated that nearly eight in ten Americans believe that Democrats and Republicans not only disagree on plans and policies, but on facts as well ([Laloggia 2018](#)).

Large knowledge gaps stemming from partisan biases are concerning. Just as high levels of political knowledge can lead to better citizenship, mass disagreement politically consequential facts can impede democratic governance and representation. Theories of retrospective accountability hinge citizens' ability to judge how well incumbents have performed in office ([Fiorina 1981](#); [Key and Cummings 1966](#); [Kramer 1971](#)). If Republicans and Democrats rely upon different sets of facts to make these judgments, elected officials have weaker incentives

to work for their constituents. Partisan disagreement about basic facts also reduces the possibility of meaningful dialogue. If Republicans and Democrats disagree about how the economy is doing, a discussion about policies for improving the economy is unlikely to follow.

Given the long shadow that these gaps cast on the health of democracy, understanding how often and to what extent partisans differ in their knowledge of political facts is vital. To study the issue, we assembled a large dataset of partisan-relevant knowledge items. To do so, we made use of data from three prominent studies on the nature and pervasiveness of partisan knowledge gaps ([Bullock et al. 2015](#); [Jerit and Barabas 2012](#); [Prior, Sood and Khanna 2015](#)). We find that partisan knowledge gaps are highly variable, and that large differences in what Democrats and Republicans believe are less common than conventional wisdom suggests. In fact, fewer than one in three partisan knowledge gaps are larger than ten percentage points. In addition, nearly one in three partisan knowledge gaps are in the “wrong” direction, that is, partisans know less party-congenial information than their opponents. In addition, more than half of the gaps in the expected direction are not statistically significant at conventional levels, despite large sample sizes. On the whole, the average knowledge gap between Democrats and Republicans is six percentage points.

We attempt to reconcile these findings with the conventional wisdom that partisan knowledge gaps are large and pervasive. We find little evidence that features of question wording systematically affect the size of such gaps; only questions that ask about topics about which there is significant misinformation or questions that are asked during presidential election campaigns appear to meaningfully influence the size of such gaps. We do, find, however, that the wording of response options matters. Specifically, we find that much of the conventional wisdom surrounding the ubiquity and size of knowledge gaps can be traced to [American National Election Studies \(N.d.\)](#) (ANES) questions, which include vague response options that encourage respondents to interpret meaning based on their own partisan biases. In a companion paper, using an original experiment, we demonstrate that vague response options of

this type can produce partisan knowledge gaps *even when* Democrats and Republicans know the answer ([Roush and Sood 2021](#)). Taken together, our results support the conclusion that partisan knowledge gaps—when they do exist—are more an artifact of “partisan cheerleading” ([Bullock et al. 2015](#); [Prior, Sood and Khanna 2015](#)) or motivated guessing than a reflection of genuine differences in knowledge.

## Partisan Learning and Political Knowledge

During Bill Clinton’s first term as president, the US budget deficit shrunk from \$255 billion to \$22 billion. Near the end of 1996, when the ANES asked a representative sample of Americans whether the budget deficit had decreased, increased, or remained the same over the past four years, far fewer Republicans than Democrats knew that the deficit had declined. While 39% of Democrats correctly identified that the budget deficit had decreased, only 25% of Republicans did the same ([Achen and Bartels 2016](#), 280).

Such large discrepancies are considered neither anomalous nor unexpected. Our understanding of how partisan bias influences information processing suggests that there are good reasons to expect partisan knowledge gaps to be large and ubiquitous. The psychological processes underlying the development of knowledge gaps is similar to those that produce partisan differences in attitudes and evaluations on a wide variety of subjects. When people encounter information that conflicts with their predispositions, they experience cognitive discomfort, which they try to minimize by employing a variety of defense mechanisms (e.g., [Abelson 1959](#); [Festinger 1962](#)). Specifically, they avoid exposing themselves to sources that provide them with uncongenial information, distrust such information when they do come across it, and do not work as hard to retain it ([Bartels 2002](#); [Jerit and Barabas 2012](#); [Lodge and Taber 2013](#)). Partisanship helps reduce cognitive discomfort by acting as a “perceptual screen,” filtering in congenial facts that comport with an individual’s partisan worldview while filtering

out those that challenge it ([Campbell et al. 1960](#); [Zaller 1992](#)). As a result, the theory goes, Democrats and Republicans come to “know” different types of information and consequently vary in their ability to answer political knowledge questions correctly.

That being said, recent scholarship has provided reasons to doubt that these knowledge gaps are as frequent and sizable as commonly believed. For one, [Bullock et al. \(2015\)](#) and [Prior, Sood and Khanna \(2015\)](#) demonstrate that partisan gaps in factual beliefs about politics are often the product of motivated responding. “Partisan cheerleading” arises when partisans want to send a message to either pollsters or the public at large about the strength or righteousness of their preferred party’s stance on a particular matter ([Huber and Yair 2018](#)). As a result, what may look like differences in political knowledge among partisans may be more a consequence of respondents providing party-congenial responses rather than expressing what they genuinely know. [Bullock et al. \(2015\)](#) and [Prior, Sood and Khanna \(2015\)](#) show that these partisan gaps can be reduced by shifting respondents’ directional motives to accuracy motives via small monetary incentives for correct answers. More recently, [Huber and Yair \(2018\)](#) also showed that partisan gaps shrink when survey respondents are given the opportunity to cheerlead prior to answering other questions. Taken together, these studies suggest that the concern that Democrats and Republicans are truly drawing on differential bases of political knowledge may be overblown.

Secondly, a more critical examination of the processes thought to underlie the production of knowledge gaps suggests that genuine differences in knowledge between Democrats and Republicans should be smaller. According to the theory of selective exposure, Democrats and Republicans consume different media sources, thereby learning and retaining different facts that are reflected in reported knowledge of political information (e.g., [Stroud 2008](#); [2010](#)). In reality, however, most people consume very little political news ([Prior 2007](#); [Flaxman, Goel and Rao 2016](#)), and the news that they do consume is relatively ideologically balanced ([Flaxman, Goel and Rao 2016](#); [Garz et al. 2018](#); [Gentzkow and Shapiro 2011](#); [Guess 2020](#)). There

is little reason, therefore, to believe that knowledge gaps emerge as a result of partisans simply tuning into different sources. Regardless of where partisans get their information, evidence shows that they do learn facts in a motivated fashion (Hill 2017; Jerit and Barabas 2012; Khanna and Sood 2018)—but the effects are modest, and people exhibit little partisan bias in their recall of information (Khanna and Sood 2018). Other scholars have pointed out that Democrats and Republicans respond to current events in a similar fashion, bringing into question the existence of motivated learning in the first place (Gerber and Green 1999; Kernell and Kernell 2019). Therefore, the conventional wisdom regarding the individual-level mechanisms thought to produce large knowledge gaps may be flawed.

Given what scholars know about the nature of partisan survey response, news consumption, and knowledge recall, there are good reasons to doubt that partisan knowledge gaps are as large, ubiquitous, and normatively troubling as expected. That being said, we lack a comprehensive understanding of the nature and frequency of such partisan differences outside of experimental contexts. Indeed, as Bullock and Lenz (2019) note in their review of partisan bias in surveys, “despite burgeoning interest in partisan differences [in responses to factual questions about politics], there have been few attempts to generalize about the size of these differences” (330). In the remainder of this paper, we attempt to do just that.

## Data and Research Design

We surveyed 1,253 respondents on Amazon Mechanical Turk (MTurk) on July 9th, 2017. We randomly assigned respondents to one of five branches—Real World (RW), Iron Pyrite Standard (IP), Fewer Substantive Responses (FSR), 14k Gold Standard (14k), and the 24k Gold Standard (24k). In each condition respondents answered 9 misinformation items, ranging from citizenship and religion of Obama to whether global warming is happening or not. (The exact question wording for each of the items is presented in Appendix C.) Respondents assigned to

RW and IP saw a simple preface: “Now here are some questions about what you may know about politics and public affairs,” while in all the other conditions, they were reassured that it is ok to not know answers to these questions and to commit to not looking up answers or asking anyone and to mark don’t know when they don’t know. (Again, see Appendix C for the specific wording.) The RW condition reflects the real-world standards most closely—it does not feature a ‘Don’t Know’, it often features social proof about the incorrect answer, for instance, “Some people believe Barack Obama was not born in the United States, but was born in another country” on a question about where Mr. Obama was born, and some neutral information about the topic, like “According to the Constitution, American presidents must be ‘natural born citizens’” on the birthplace question, that may encourage the ignorant to take a guess.

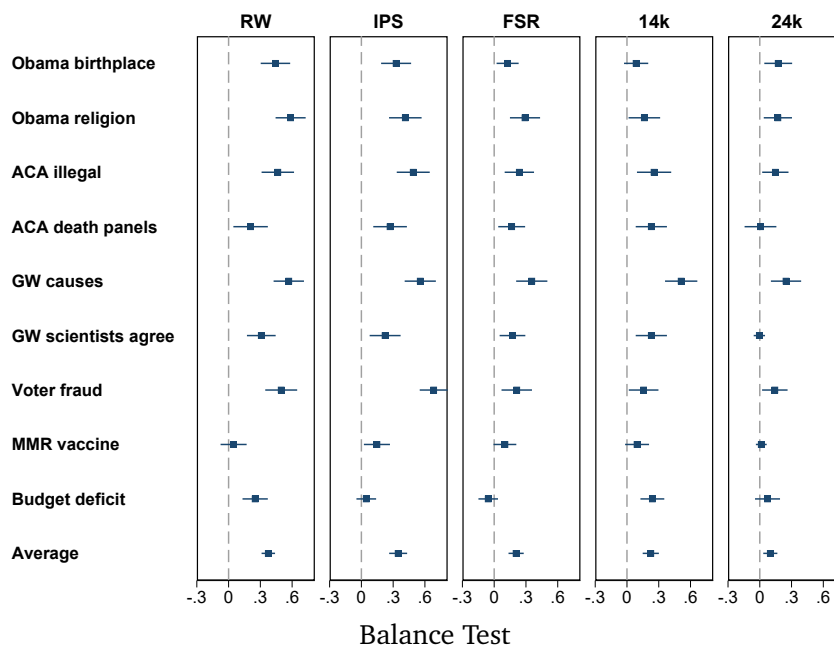
The Iron Pyrite Standard (or the Fool’s Gold Standard) reflects the standard likely to inflate the number of incorrect responses the most. It never includes the ‘Don’t Know,’ it always includes neutral information that encourages people to take a guess, and it also includes social proof about the incorrect answer.

The FSR standard adds a ‘Don’t Know’ and removes from the question stem any neutral information that is likely to cause people to offer a substantive response when they don’t know. The 14k gold standard gives us the best version of the multiple-choice question while maintaining commensurability with other items. The 14k, vis-a-vis FSR removes social proof from the stem as well.

The 24k standard asks respondents to rate the claim on a 0 to 10 scale going from ‘definitely false’ to ‘definitely true.’ The question is inspired by other attempts to take account of confidence in distinguishing misinformation from incorrect responses stemming from processes like inference, unlucky guessing, and such (see, for instance, Pasek et al. 2015).

# Partisan Knowledge Gaps

Figure 1: Balance Test by Treatment Arm



## Discussion and Conclusion

Our results clarify our understanding of partisan knowledge gaps in important ways. First, partisan knowledge gaps are less ubiquitous than what conventional wisdom in political science suggests. For three in ten items, partisans either know *less* party-congenial information or *more* party-uncongenial information than their opponents. Among gaps occurring in the correct direction, we can only be certain that Democrats and Republicans actually differ from one another in their factual understanding of politics less than half the time. Secondly, the average knowledge gap in our data is small, with a mean gap of six percentage points and a median gap of about three percentage points. Third, many question features like the number of response options or question wording weakly predict the size of partisan knowledge gaps; instead, it is question difficulty and the *content* of response options that influence the size of the gap.



If partisan gaps are small on average and difficult to predict based on question wording, why does the common wisdom that Democrats and Republicans differ substantially in political knowledge persist? One explanation may be that the knowledge items in our dataset are not a representative set of relevant cognitions that partisans have. It may well be that the knowledge gaps are larger on partisan-relevant facts that are not asked about in the studies described above. To what degree this is so, we cannot say, except to note that the general bias is to “hunt where the ducks are.” That is, in at least two of our studies ([Bullock et al. 2015](#); [Prior, Sood and Khanna 2015](#)), expert political scientists constructed knowledge questions that they reasonably believed *a priori* would produce large partisan gaps; in the case of [Jerit and Barabas \(2012\)](#), the authors built a dataset of knowledge questions that they believed carried a partisan implication (in other words, in which they expected knowledge gaps between Democrats and Republicans to occur). The fact that statistically significant, “positive” knowledge gaps only emerge on about half of the items from these studies suggests that partisan knowledge gaps are less common even when looking in the most obvious place.

A potentially more satisfying explanation for this discrepancy is that such conventional wisdom is largely based on studies using data from the [American National Election Studies \(N.d.\)](#). Much of the literature on partisan knowledge gaps has built upon [Bartels \(2002\)](#), who was the first to write about these differences ([Bullock and Lenz 2019](#)). For example, using the ANES data, [Bartels \(2002\)](#) discovered that Democrats and Republicans reported different beliefs on a variety of objective facts—such as how inflation and unemployment changed over the previous eight years—while Ronald Reagan was president. In 1988, the estimated differences between Democrats and Republicans on knowledge questions ranged from approximately 12 to 36 percentage points, depending on the question.<sup>1</sup> These kinds of questions with imprecise

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<sup>1</sup>These figures have been rescaled in percentage point terms. [Bartels’s \(2002\)](#) original calculation is that “the estimated differences between Democrats and Republicans rang[e] from .249 to .715 on the -1 to +1 scales” (137).

response options—which ask about respondents’ *assessment* of politically relevant facts rather than their actual *knowledge* of such facts—are one of the most likely source of large partisan knowledge gaps. The fact that questions with imprecise response options are commonplace on one of the biggest publicly-available sources of survey data likely helps perpetuate the idea that Democrats and Republicans approach the political world with entirely different information.

Based on our results here, we suspect that the vast majority of partisan gaps—when they do appear—are more likely to be a product of motivated responding than of partisans simply knowing different things (Bisgaard and Slothuus 2018; Bullock et al. 2015; Prior, Sood and Khanna 2015; Schaffner and Luks 2018; but see Berinsky 2017 and Peterson and Iyengar 2020). None of this is to say that partisan bias does not play a role in shaping how Democrats and Republicans interpret what they know; there is ample evidence to suggest that it does (e.g., Bisgaard 2015; Gaines et al. 2007; Khanna and Sood 2018). Nor should the small size of the average gap prevent us from noting that on many of the questions, a majority of partisans on both sides of the aisle were either ignorant or misinformed about the facts: the average proportion of Republicans and Democrats who provided correct answers to these knowledge questions is about 42% each.

While this is certainly troubling for those who view political knowledge as an essential component of democratic citizenship, there is some reason for optimism. When it comes to knowledge of political facts, more often than not, there do not appear to be large imbalances between what Democrats and Republicans know. When partisan differences do emerge, we suspect that they are often more a product of biased interpretation of survey questions rather than of differential stores of knowledge. This suggests that even in a polarized political context, most Democrats and Republicans can use the same information to make collective judgments about whether to reward or punish elected officials based on performance—whether they want to, of course, is another question.

	(1)	(2)	(3)	(4)	(5)	(6)
Republican=1	0.256*** (0.016)		0.375*** (0.030)	0.258*** (0.016)		0.374*** (0.029)
14k		−0.090*** (0.025)	−0.023 (0.022)		−0.093*** (0.025)	−0.026 (0.021)
24k		−0.165*** (0.022)	−0.064*** (0.018)		−0.166*** (0.022)	−0.066*** (0.017)
FSR		−0.074** (0.025)	−0.000 (0.022)		−0.075** (0.024)	−0.004 (0.021)
IPS		−0.010 (0.028)	−0.000 (0.022)		−0.014 (0.028)	−0.005 (0.021)
Republican=1 × 14k			−0.156*** (0.044)			−0.157*** (0.044)
Republican=1 × 24k			−0.265*** (0.042)			−0.266*** (0.041)
Republican=1 × FSR			−0.196*** (0.042)			−0.186*** (0.041)
Republican=1 × IPS			−0.024 (0.046)			−0.021 (0.045)
Constant	0.165*** (0.006)	0.314*** (0.020)	0.182*** (0.017)	−0.008 (0.946)	1.794 <sup>+</sup> (1.083)	0.483 (0.878)
R <sup>2</sup>	0.329	0.270	0.354	0.335	0.277	0.361
Survey item FE	Yes	Yes	Yes	Yes	Yes	Yes
Demographic controls	.	.	.	Yes	Yes	Yes
Items	9	9	9	9	9	9
Respondents	794	794	794	793	793	793
Respondent-items	6,893	6,893	6,893	6,884	6,884	6,884

All models are linear probability models where the dependent variable indicates whether response to a survey item is congenial to party affiliation. Demographic controls include age cohort, gender, education level (college degree, high school, no high school, post-graduate, and some college), and race (Hispanic, Asian, Black, White, Others). All models include the nine survey item fixed effects. Standard errors are clustered at the respondent level. Significance levels: + 0.1 \* 0.05 \*\* 0.01 \*\*\* 0.001.

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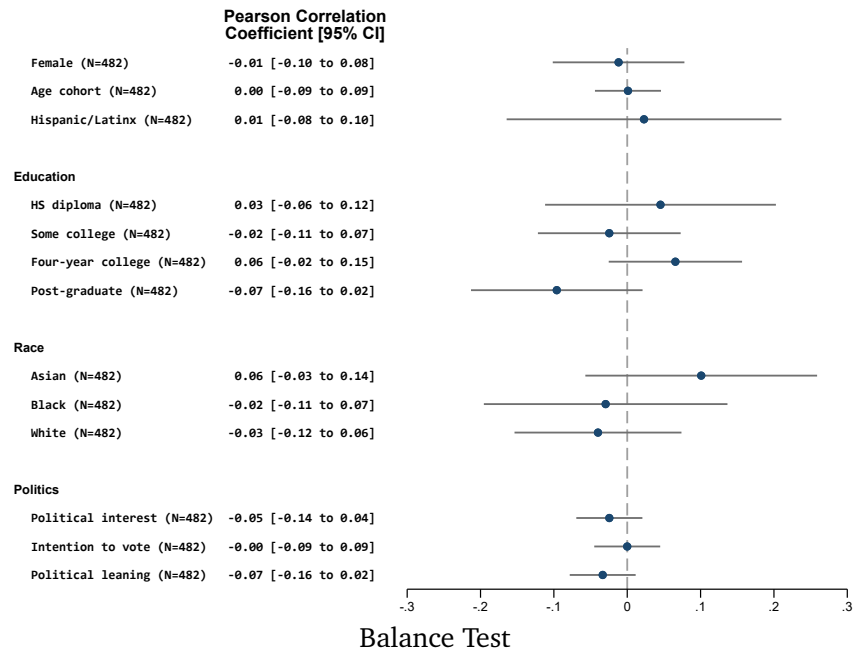
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# SUPPORTING INFORMATION





# SI 1 Item Text for the MTurk Study

## Preface for Different Conditions

### RW, IP

Now here are some questions about what you may know about politics and public affairs.

### FSR, 14k, 24k

Now here are some questions about what you may know about politics and public affairs. We are interested in measuring what people currently know and can recall on their own and are just as interested in what people don't know as in what they do know. So we'd like your agreement to just say "don't know" if you don't know the answer—without looking anything up or talking with anyone about it.

### Item Text 24k

Now here are a series of statements. On a scale of 0 to 10, where 0 means definitely false, 10 means definitely true, and 5 is exactly in the middle, how definitely true or false is each statement?

- Barack Obama was born in the US (T)
- Barack Obama is a Muslim (F)
- The Affordable Care Act gives illegal immigrants financial help to buy health insurance (F)
- The Affordable Care Act does not create government panels to make decisions about end-of-life care (T)
- Temperatures around the world are increasing because of human activity, like burning coal and gasoline (T)
- Most climate scientists believe that global warming is not occurring (F)
- In the 2016 presidential election, President Trump won the majority of the legally cast votes (F)
- The vaccine for measles, mumps, and rubella (MMR) causes autism in children. (F)
- Since 2012, the annual federal budget deficit has increased. (T)

### Rest of the Conditions, By Item

- Obama's Birthplace

### RW and IP

According to the Constitution, American presidents must be "natural born citizens." Some people believe Barack Obama was not born in the United States, but was born in another country. Do you think Barack Obama was born in ...?

- The US
- Another country

### **FSR**

Some people believe Barack Obama was not born in the United States, but was born in another country. Was he born in ...?

- The US
- Another country
- DK (plus DK pref)

**14k**

Was Barack Obama born in ...?

- the US
- Another country
- DK (plus DK pref)

- Obama Religion

### **RW**

Do you personally believe that Barack Obama is a ...?

- Muslim
- Christian

### **IP**

Most people have a religion. Some people believe Barack Obama is a Muslim. Do you personally believe that Barack Obama is a ...?

- Muslim
- Christian

### **FSR**

Some people believe Barack Obama is a Muslim. Is he a ...?

- Muslim
- Christian
- DK (+ DK pref)

**14k**

Is Barack Obama a ...?

- Muslim
- Christian
- DK (plus DK pref)

- ACA Illegal

**RW**

To the best of your knowledge, would you say the Affordable Care Act...?

- Gives illegal immigrants financial help to buy health insurance
- Does not give illegal immigrants financial help to buy health insurance

**IP**

As you may know, there is currently talk of changing the Affordable Care Act (ACA), enacted in 2010. Some people believe that the ACA gives illegal immigrants financial help to buy health insurance. To the best of your knowledge, would you say the ACA...?

- Gives illegal immigrants financial help to buy health insurance
- Does not give illegal immigrants financial help to buy health insurance

**FSR**

Some people believe that Affordable Care Act gives illegal immigrants financial help to buy health insurance. Does the Affordable Care Act...?

- Give illegal immigrants financial help to buy health insurance
- Not give illegal immigrants financial help to buy health insurance
- DK (+ DK pref)

**14k**

Does the Affordable Care Act...?

- Give illegal immigrants financial help to buy health insurance
- Not Give illegal immigrants financial help to buy health insurance
- Don't know (+ DK pref)

- ACA—Death Panels

**RW**

To the best of your knowledge, would you say that the Affordable Care Act ... ?

- Creates government panels to make decisions about end-of-life care
- Does not create government panels to make decisions about end-of-life care

**IP**

Some people believe that Affordable Care Act establishes a government panel to make decisions about end-of-life care. To the best of your knowledge, would you say that the Affordable Care Act ... ?

- Creates government panels to make decisions about end-of-life care
- Does not create government panels to make decisions about end-of-life care

**FSR**

Some people believe that Affordable Care Act establishes a government panel to make decisions about end-of-life care. Does the Affordable Care Act... ?

- Creates government panels to make decisions about end-of-life care
- Does not create government panels to make decisions about end-of-life care
- DK (+ DK pref)

**14k**

Does the Affordable Care Act ... ?

- Creates government panels to make decisions about end-of-life care
- Does not create government panels to make decisions about end-of-life care
- DK (+ DK pref)

- Global Warming—Happening + Causes

**RW**

Which of the following best fits your view about this? Are temperatures around the world ... ?

- Increasing because of natural variation over time, such as produced the ice age
- Increasing because of human activity, like burning coal and gasoline
- Staying about the same as they have been

**IP**

Recently, you may have noticed that global warming has been getting some attention in the news. Some people believe that temperatures are increasing around the world because of natural variation over time, such as produced the ice age. Which of the following best fits your view about this? Would you say that temperatures around the world are...?

- Increasing because of natural variation over time, such as produced the ice age
- Increasing because of human activity, like burning coal and gasoline
- Staying about the same as they have been

**FSR**

Some people believe that temperatures are increasing around the world because of natural variation over time, such as produced the ice age. Are temperatures around the world ...?

- Increasing because of natural variation over time, such as produced the ice age
- Increasing because of human activity, like burning coal and gasoline
- Staying about the same as they have been
- DK (+ DK pref)

**14k**

Are temperatures around the world ...?

- Increasing because natural variation over time, such as produced the ice age
- Increasing because human activity, like burning coal and gasoline
- Staying about the same as they have been
- DK (+ DK pref)

- GW—Scientist Agreement

**RW**

Just your impression, which one of the following statements do you think is most accurate?

- Most climate scientists believe that global warming is occurring.
- Most climate scientists believe that global warming is not occurring.
- Climate scientists are about equally divided about whether global warming is occurring or not

**IP**

As you may know, the term “global warming” refers to the claim that temperatures have been increasing around the world. Some people believe that most climate scientists believe that global warming is not occurring. Just your impression, which one of the following statements do you think is most accurate?

- Most climate scientists believe that global warming is occurring.
- Most climate scientists believe that global warming is not occurring.
- Climate scientists are about equally divided about whether global warming is occurring or not

**FSR**

Some people believe that most climate scientists believe that global warming is not occurring. Which one of the following statements is most accurate?

- Most climate scientists believe that global warming is occurring.
- Most climate scientists believe that global warming is not occurring.
- Climate scientists are about equally divided about whether global warming is occurring or not
- DK (+ DK pref)

**14k**

Which one of the following statements is most accurate?

- Most climate scientists believe that global warming is occurring.
- Most climate scientists believe that global warming is NOT occurring.
- Climate scientists are about equally divided about whether global warming is occurring or not
- DK (+ DK pref)

- Voter Fraud

**RW**

As you may know, President Trump has said that several million people voted illegally in the 2016 presidential election and that he won the majority of the legally cast votes. Do you believe that President Trump ...?

- Won the majority of the legally cast votes
- Did not win the majority of the legally cast votes

**IP**

As you may know, not everyone living in the US has the legal right to vote. President Trump has said that several million people voted illegally in the 2016 presidential election and that he won the majority of the legally cast votes. Do think that that President Trump ...?

- Won the majority of the legally cast votes
- Did not win the majority of the legally cast votes

#### **FSR**

As you may know, President Trump has said that several million people voted illegally in the 2016 presidential election and that he won the majority of the legally cast votes. Did President Trump ...?

- Won the majority of the legally cast votes
- Did not win the majority of the legally cast votes
- DK (+ DK pref)

#### **14k**

In the 2016 presidential election, did President Trump ...?

- Won the majority of the legally cast votes
- Did not win the majority of the legally cast votes
- DK (+ DK pref)

#### **• Vaccines**

##### **RW**

From what you have read or heard, do you personally think that the vaccine for Measles, Mumps, and Rubella (MMR):

- Causes autism in children
- Does not cause autism in children

##### **IP**

As you may know, most children receive the vaccine for Measles, Mumps, and Rubella (MMR). Some people believe that the MMR vaccine causes autism in children. From what you have read or heard, do you personally think that the MMR vaccine:

- Causes autism in children
- Does not cause autism in children

##### **FSR**

Some people believe that the vaccine for Measles, Mumps, and Rubella (MMR) causes autism in children. Does the MMR vaccine ...?

- Cause autism in children
- Not cause autism in children.
- DK (+ DK pref)

**14k**

Does the vaccine for Measles, Mumps, and Rubella (MMR) ...?

- Cause autism in children
- Not cause autism in children.
- DK (+ DK pref)

- **Obama—Budget Deficit**

**RW**

As you may know, the federal government runs a deficit when it spends more than it takes in. Since 2012, would you say that the annual federal budget deficit has ...

- Increased
- Stayed about the same
- Decreased

**IP**

As you may know, the federal government runs a deficit when it spends more than it takes in. Since 2012, with the Republicans having the majority in the U.S. House of Representatives, would you say that the annual federal budget deficit has ...

- Increased
- Stayed about the same
- Decreased

**FSR**

Since 2012, with the Republicans having the majority in the U.S. House of Representatives,

- has the annual federal budget deficit ....
- Increased
- Stayed about the same
- Decreased
- DK (+ DK pref)

**14k**

Since 2012, has the annual federal budget deficit ...

- Increased
- Stayed about the same
- Decreased
- DK (+ DK pref)