

ATTACHMENT A: QUESTIONNAIRES USED IN COGNITIVE TESTING

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NSF Questionnaire (True/False Version)

Section A.

Now, I would like to ask you a few short questions like those you might see on a television game show. For each statement that I read, please select true or false. If you don't know or aren't sure, select don't know and go to the next question.

1. First, the center of the Earth is very hot.

- True
- False
- Don't know

2. All radioactivity is man-made.

- True
- False
- Don't know

3. It is a chromosome from the father's genes that decides whether the baby is a boy or a girl.

- True
- False
- Don't know

4. Lasers work by focusing sound waves.

- True
- False
- Don't know

5. Electrons are smaller than atoms.

- True
- False
- Don't know

6. Antibiotics kill both viruses and bacteria.

- True
- False
- Don't know

7. The universe began with a huge explosion.

- True
- False
- Don't know

8. The universe has been expanding for billions of years.

- True
- False
- Don't know

9. The continents on Earth have been moving for millions of years and will continue to move in the future.

- True
- False
- Don't know

10. Mice descended from earlier species of animals.

- True
- False
- Don't know

11. The Earth goes around the Sun.

- True
- False
- Don't know

12. Human beings descended from earlier species of animals.

- True
- False
- Don't know

Section B.

The next questions are not about what you think, but are about what most scientists think. Please tell us whether each of the following is True or False according to modern biology.

According to modern biology...	True	False	Modern biology doesn't say
A. Individual members of a species are equally able to find food and reproduce.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Even species that look different such as cats and worms can be similar genetically.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Some bacteria may inherit a gene that helps them survive the effects of drugs. These bacteria will be more likely to live when exposed to the drugs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. All plants and animals, including humans, share a common ancestor that lived a long time ago.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Physical characteristics such as big muscles that an animal acquires during its lifetime will be passed on to its offspring.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. People of some races have better genetic traits than people of other races.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. Evolution means that all species are slowly evolving towards perfection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. All dogs and cats share a common ancestor that lived a long time ago.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. During their lifetimes, plants develop traits like growing toward the sun that they need in order to live.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

According to modern biology...	True	False	Modern biology doesn't say
J. When a predator is introduced into a population of lizards, the lizards with traits that help them avoid the predator are more likely to survive and reproduce than the others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. Pigeons and frogs share a common ancestor that lived a long time ago.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L. A population of birds that lives in two different places may slowly adapt to those places and over many generations become two different species.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M. People's fate are determined by their genes and not by free will.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section C.

1. For the following items, please indicate your agreement/disagreement with the given statements using the following scale:

	Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree
A. The modern theory of evolution is just speculation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Strong scientific evidence shows that evolution has actually occurred.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. The earth is less than 10,000 years old.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Mice today are basically the same as mice have always been.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. The Earth is at least 4 billion years old.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. The modern theory of evolution cannot be correct because it disagrees with what the Bible says.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. Humans exist today in the same form they always have	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Most scientists doubt whether evolution occurs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Over time, many new types of plants and animals have come into existence.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Do you, personally, think that the theory of evolution is correct, do you think it is incorrect, or don't you have an opinion either way?

- Think the theory of evolution is correct
- Think the theory of evolution is incorrect → [GO TO QUESTION 4](#)
- Don't have an opinion → [GO TO QUESTION 5](#)

3. Why do you think the modern theory of evolution is correct?

4. Why do you think the modern theory of evolution is incorrect?

5. How much evidence do you think supports the modern theory of evolution?

- Overwhelming evidence
- A lot of evidence
- Some evidence
- A little evidence
- No evidence

6. Does the modern theory of evolution claim that human beings are just another species of animal with nothing really special about them?

- Yes
- No

7. Does the theory of evolution lead children to believe that there is no God or does it not lead to this belief?

- Does lead to this belief
- Does not lead to this belief

8. How much does the theory of evolution conflict with a belief in morality?

- Not at all
- A little
- Some
- A lot
- Completely

NSF Questionnaire (Forced Choice Version)

Section A.

Now, I would like to ask you a few short questions like those you might see on a television game show. For each statement that I read, please select the best answer. If you don't know or aren't sure, select don't know and go to the next question.

1. First, is the center of the Earth very hot or is it not very hot?

- Very Hot
- Not Very Hot
- Don't know

2. Is all radioactivity man-made or does some occur naturally?

- All man-made
- Some natural
- Don't know

3. What decides whether a baby is a boy or a girl? Is it a chromosome from the father's genes, from the mother's genes, from both, or from neither?

- Father's chromosome
- Mother's chromosome
- Both
- Neither
- Don't know

4. Do lasers work by focusing sound waves or do they work in some other way?

- Sound waves
- Some other way
- Don't know

5. Are electrons smaller, larger, or the same size as atoms?

- Smaller
- Larger
- The same size
- Don't know

6. Do antibiotics kill bacteria only, viruses only, or both viruses and bacteria?

- Bacteria only
- Viruses only
- Both bacteria and viruses
- Don't know

7. Did the universe begin with a huge explosion or did it not begin this way?

- With a huge explosion
- Did not begin this way
- Don't know

8. Has the universe been expanding, shrinking, or has it been pretty much the same size since it began?

- Expanding
- Shrinking
- Same size
- Don't know

9. Have the continents on Earth been moving for millions of years or have the continents pretty much stayed in place?

- Moving
- Stayed in place
- Don't know

10. Did mice descend from earlier species of animals or did they not descend from earlier species of animals?

- Did descend from earlier species
- Did not descend from earlier species
- Don't know

11. Now, does the Earth go around the Sun, or does the Sun go around the Earth?

- Earth goes around the Sun
- Sun goes around the Earth
- Don't know

12. Did human beings descend from earlier species of animals or did they not descend from earlier species of animals?

- Did descend from earlier species
- Did not descend from earlier species
- Don't know

Section B.

The next questions are not about what you think, but are about what most scientists think. Please tell us whether each of the following is True or False according to modern biology.

According to modern biology...	True	False	Modern biology doesn't say
A. Individual members of a species are equally able to find food and reproduce.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Even species that look different such as cats and worms can be similar genetically.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Some bacteria may inherit a gene that helps them survive the effects of drugs. These bacteria will be more likely to live when exposed to the drugs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. All plants and animals, including humans, share a common ancestor that lived a long time ago.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Physical characteristics such as big muscles that an animal acquires during its lifetime will be passed on to its offspring.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. People of some races have better genetic traits than people of other races.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. Evolution means that all species are slowly evolving towards perfection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. All dogs and cats share a common ancestor that lived a long time ago.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. During their lifetimes, plants develop traits like growing toward the sun that they need in order to live.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

According to modern biology...	True	False	Modern biology doesn't say
J. When a predator is introduced into a population of lizards, the lizards with traits that help them avoid the predator are more likely to survive and reproduce than the others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. Pigeons and frogs share a common ancestor that lived a long time ago.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L. A population of birds that lives in two different places may slowly adapt to those places and over many generations become two different species.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M. People's fate are determined by their genes and not by free will.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section C.

13. For the following items, please indicate your agreement/disagreement with the given statements using the following scale:

	Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree
A. The modern theory of evolution is just speculation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Strong scientific evidence shows that evolution has actually occurred.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. The earth is less than 10,000 years old.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Mice today are basically the same as mice have always been.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. The Earth is at least 4 billion years old.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. The modern theory of evolution cannot be correct because it disagrees with what the Bible says.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. Humans exist today in the same form they always have	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Most scientists doubt whether evolution occurs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Over time, many new types of plants and animals have come into existence.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14. Do you, personally, think that the theory of evolution is correct, do you think it is incorrect, or don't you have an opinion either way?

- Think the theory of evolution is correct
- Think the theory of evolution is incorrect → [GO TO QUESTION 4](#)
- Don't have an opinion → [GO TO QUESTION 5](#)

15. Why do you think the modern theory of evolution is correct?

16. Why do you think the modern theory of evolution is incorrect?

17. How much evidence do you think supports the modern theory of evolution?

- Overwhelming evidence
- A lot of evidence
- Some evidence
- A little evidence
- No evidence

18. Does the modern theory of evolution claim that human beings are just another species of animal with nothing really special about them?

- Yes
- No

19. Does the theory of evolution lead children to believe that there is no God or does it not lead to this belief?

- Does lead to this belief
- Does not lead to this belief

20. How much does the theory of evolution conflict with a belief in morality?

- Not at all
- A little
- Some
- A lot
- Completely