

A/B Illusion Experiment #1 (Checklist)

Start of Block: Instructions

We are conducting a brief survey. You will be asked to respond to a series of questions. You will be compensated \$0.35 for your time.

Please click next to continue to the survey.

End of Block: Instructions

Start of Block: AB_Block

badge Some medical treatments require a doctor to insert a plastic tube into a large vein. These treatments can save lives, but they can also lead to deadly infections. A hospital director comes up with an idea to reduce these infections. He decides to give each doctor who performs this procedure a new ID badge with a list of standard safety precautions for the procedure printed on the back. All doctors performing this procedure will then have this list attached to their clothing, so they can look at it while performing the procedure. The director thinks that these new badges might help doctors remember all of the safety steps they were trained to take during the procedure. **How appropriate is the director's decision?**

- ☐ Very inappropriate (1)
 - ☐ Somewhat inappropriate (2)
 - ☐ Neither appropriate nor inappropriate (3)
 - ☐ Somewhat appropriate (4)
 - ☐ Very appropriate (5)
-

poster Some medical treatments require a doctor to insert a plastic tube into a large vein. These treatments can save lives, but they can also lead to deadly infections. A hospital director comes up with an idea to reduce these infections. He decides to hang a poster with a list of standard safety precautions for this procedure in all the rooms where it is performed. All doctors

performing this procedure will then work in rooms with the poster on the wall, so they can look at it while performing the procedure. The director thinks that these posters might help doctors remember all of the safety steps they were trained to take during the procedure. **How appropriate is the director's decision?**

- ☐ Very inappropriate (1)
 - ☐ Somewhat inappropriate (2)
 - ☐ Neither appropriate nor inappropriate (3)
 - ☐ Somewhat appropriate (4)
 - ☐ Very appropriate (5)
-

bp_short Some medical treatments require a doctor to insert a plastic tube into a large vein. These treatments can save lives, but they can also lead to deadly infections. A hospital director comes up with two ideas to reduce these infections. He decides to run an experiment to compare these two ideas by randomly assigning patients to one of two groups. Half of the patients will be treated by a doctor who has received a new ID badge with a list of standard safety precautions for the procedure printed on the back. The other half will be treated in a room with a poster listing the same precautions hanging on the wall. The director thinks that these badges and posters might help doctors remember all of the safety steps they were trained to take during the procedure.

How appropriate is the director's decision?

- ☐ Very inappropriate (1)
 - ☐ Somewhat inappropriate (2)
 - ☐ Neither appropriate nor inappropriate (3)
 - ☐ Somewhat appropriate (4)
 - ☐ Very appropriate (5)
-

bp_long Some medical treatments require a doctor to insert a plastic tube into a large vein. These treatments can save lives, but they can also lead to deadly infections. A hospital director comes up with two ideas to reduce these infections. He decides to run an experiment to test

compare two ideas by randomly assigning patients to one of two groups. Half of the patients will be treated by a doctor who has received a new ID badge with a list of standard safety precautions for the procedure printed on the back. The other half will be treated in a room with a poster listing the same precautions hanging on the wall. The director thinks that these badges and posters might help doctors remember all of the safety steps they were trained to take during the procedure. After a year, the director will check which option, badges or posters, is most effective, and make it standard for all patients and doctors throughout the entire hospital.

How appropriate is the director's decision?

- ☐ Very inappropriate (1)
- ☐ Somewhat inappropriate (2)
- ☐ Neither appropriate nor inappropriate (3)
- ☐ Somewhat appropriate (4)
- ☐ Very appropriate (5)

Q30 In a couple of sentences, please explain your response.

End of Block: AB_Block

Start of Block: Science_long

plants Two scientists want to know if a certain new plant food will increase plant growth. The first scientist wants to give the new food to 1,000 plants and see how many of them grow larger than they were before they received the new food. The second scientist wants to give the new food to 500 plants and give the normal, standard food to another 500 plants, and see whether the plants in the first group grow more than the plants in the second group. **Which is the better way to test this plant food?**

- ☐ Give the new food to all 1,000 plants. (1)
- ☐ Give the new food to 500 plants and give the normal, standard food to another 500 plants. (2)

Page Break

A doctor tells a couple that their genetic makeup means that they have a one in four chance of having a child with an inherited illness.

gene1

Does this mean that if their first child has the illness, the next three will not?

- ☐ No, the next three still might inherit the illness. (1)
- ☐ Yes, none of the next three children will have the illness. (2)

End of Block: Science_long

Start of Block: Science_TF

Q24 Please indicate whether the following statements are true or false.

Earth The center of the Earth is very hot.

- ☐ True (1)
- ☐ False (2)
-

Radioact All radioactivity is man-made.

- ☐ True (1)
- ☐ False (2)
-

Lasers Lasers work by focusing sound waves.

☐ True (1)

☐ False (2)

Electrons Electrons are smaller than atoms.

☐ True (1)

☐ False (2)

Continents The continents have been moving their location for millions of years and will continue to move.

☐ True (1)

☐ False (2)

Gender It is the father's gene that decides whether the baby is a boy or a girl.

☐ True (1)

☐ False (2)

Antibiotics Antibiotics kill viruses as well as bacteria.

☐ True (1)

☐ False (2)

degree Do you have a college or graduate school degree in any science or engineering field? If so, in which field(s)?

- ☐ Yes, I do. (1)
- ☐ No, I do not. (2)

Degree_spec If you answered 'yes' to the question above, please enter the specific science or engineering field below.

End of Block: Science_TF

Start of Block: Demographics

Sex What is your sex?

- ☐ Male (1)
- ☐ Female (2)
- ☐ Other (3)

Race What race/ethnicity do you consider yourself? Check all that apply.

- ☐ Black/African-American (1)
- ☐ Hispanic of Latino (2)
- ☐ White (3)
- ☐ Asian (4)
- ☐ Other (5)

Age What is your age (in years)?

Edu What is the highest level of education you have received?

- ☐ Less than High School (1)
- ☐ High School Degree (2)
- ☐ Some College (3)
- ☐ Four-Year College Degree (4)
- ☐ Some Graduate School (5)
- ☐ Graduate Degree (6)

Income What is the total annual income from everyone in your household?

- ☐ Less than \$20,000 (1)
- ☐ Between \$20,000 and \$40,000 (2)
- ☐ Between \$40,000 and \$60,000 (3)
- ☐ Between \$60,000 and \$80,000 (4)
- ☐ Between \$80,000 and \$100,000 (5)
- ☐ More than \$100,000 (6)

End of Block: Demographics

Start of Block: GodBeliefs

Q30 Please indicate how strongly you agree or disagree with each of the following statements.

God God or some type of nonhuman entity is in control of the events in the universe.

- ☐ Strongly disagree (1)
 - ☐ Somewhat disagree (2)
 - ☐ Neither agree nor disagree (3)
 - ☐ Somewhat agree (4)
 - ☐ Strongly agree (5)
-

Intuition We believe too often in science, and not enough in feelings and faith.

- ☐ Strongly disagree (1)
 - ☐ Somewhat disagree (2)
 - ☐ Neither agree nor disagree (3)
 - ☐ Somewhat agree (4)
 - ☐ Strongly agree (5)
-

Science Knowledge can best be obtained through scientific research.

- ☐ Strongly disagree (1)
- ☐ Somewhat disagree (2)
- ☐ Neither agree nor disagree (3)
- ☐ Somewhat agree (4)
- ☐ Strongly agree (5)

End of Block: GodBeliefs

Start of Block: ThankYou

Q34 Thank you for participating in this study. Click Next to receive your completion code.

End of Block: ThankYou
