

APPENDIX 1: MATERIALS

**** CLARIFYING NOTES FROM RESEARCHER FOR REVIEW ARE SHOWN HIGHLIGHTED****

**** SCREENSHOTS FROM STUDY 1 PRESENTED. ALL NAMES WILL BE CHANGED TO
POLITICAL PARTIES FOR STUDY 2****

**** PARTICIPANTS CONSENT****

**** INSTRUCTIONS ****

Screen Recording

During this study, we may ask permission to "screen-record" your mouse movements. We will prompt you before we start screen recording, and only survey activity will be recorded. Nothing on your desktop or outside of the browser window will be recorded.

Please indicate below that you understand your screen may be recorded during the experiment.

☐ I understand my screen may be recorded during the study.

Next >>

In this study, we're interested in how people talk to one another and complete tasks.

This study has 3 phases.

In the Pre-test Phase, you will be matched with other participants. You'll then complete a short task and live chat about it with other study participants.

In the Study Assignment Phase, the study tasks will be assigned to participants.

In the Task Phase, you will complete your assigned tasks.

DO NOT REFRESH YOUR BROWSER AT ANY TIME.
THIS WILL RESTART THE STUDY AND MAKE IT IMPOSSIBLE FOR
YOU TO CONTINUE.

Next >>

**** PARTICIPANTS ARE MATCHED WITH OTHERS, CAN TAKE UP TO 8 MINUTES.
PARTICIPANTS WHO FAIL TO MATCH DO NOT MOVE ON, AND ARE EXCLUDED FROM
THE STUDY ****

We are currently trying to match you with other participant(s).
Please wait patiently to be matched. This may take a few minutes.
Please do NOT minimize this window or navigate to another page.



Waiting for 1 participant(s) to join.

**** PARTISANSHIP ****

What political party do you most identify with?

☐ Republican

☐ Democrat

☐ Green Party

☐ Libertarian

☐ Independent/Other

How strongly do you associate with your selected political party?

Very
weakly

☐

Weakly

☐

Somewhat
weakly

☐

Neither
strong nor
weak

☐

Somewhat
strongly

☐

Strongly

☐

Very
strongly

☐

How would you describe your political views?

Very
conservative

☐

Conservative

☐

Somewhat
conservative

☐

Neither
liberal nor
conservative

☐

Somewhat
liberal

☐

Liberal

☐

Very
liberal

☐

Next >>

**** OVERESTIMATOR / UNDERESTIMATOR TASK ****

In the next task, you will be shown a random number of dots for several seconds, and then asked to report how many dots are on the screen.

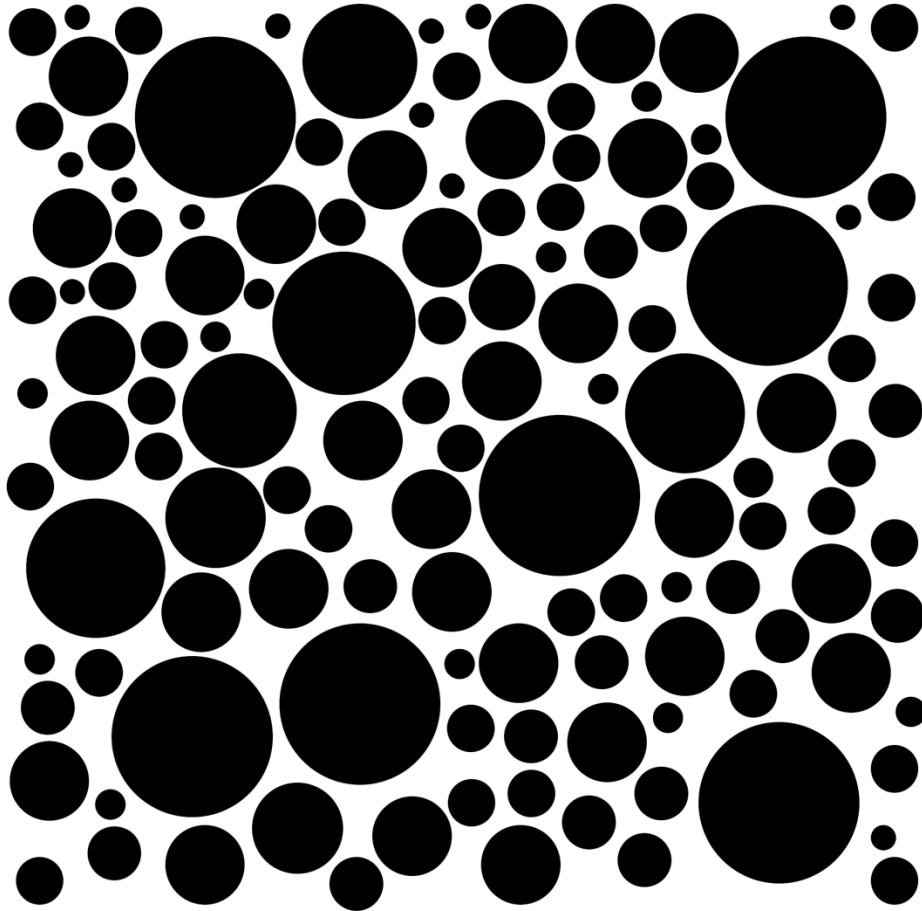
Based on your performance on this task, we will then assign you to one of the following groups:

People who overestimate the number of dots (called
"Overestimators")

People who underestimate the number of dots (called
"Underestimators")

On the next page, you will be shown a number of dots.
Please watch carefully.

Next >>



**** PARTICIPATNS ARE SHOWN DOTS FOR 5 SECONDS****

Are you an **Overestimator**, or **Underestimator**?

Approximately how many dots were in the previous image?

Next >>

**** PARTICIPANTS ARE RANDOMLY SHOWN ONE OF THE FOLLOWING ****

According to your response, you are an

UNDERESTIMATOR!

You tend to *underestimate* numbers.

You will now be placed into a chat where you'll talk with other participants. Some will be **overestimators**, and some will be **underestimators**.

Please take this time to chat about your experience with the **Overestimator** / **Underestimator** Task.

Next >>

According to your responses, you are an:

OVERESTIMATOR!

You tend to *overestimate* numbers.

You will now be placed into a chat where you'll talk with other participants. Some will be **overestimators**, and some will be **underestimators**.

Please take this time to chat about your experience with the **Overestimator** / **Underestimator** Task.

**** CHAT PHASE, LASTS 2.5 MINUTES, PARTICIPANTS CANNOT ADVANCE ****

Please take the next few minutes to chat with other participants about being an overestimator or underestimator. Remember, you may have seen different images.

REMAINING TIME: 2:23

*** Player1-Overestimator has joined the chat ***
*** Player1-Overestimator has joined the chat ***
*** Player2-Underestimator has joined the chat ***
*** Player2-Underestimator has joined the chat ***
*** Player3-Overestimator has joined the chat ***
*** Player3-Overestimator has joined the chat ***
*** Player4-Underestimator has joined the chat ***
*** Player4-Underestimator has joined the chat ***

Type message...

SEND MESSAGE

****TASK PHASE****

Please read the instructions carefully. The advance button will appear momentarily.

In this experiment, you will be assigned to complete **ONE** of the following tasks.

The Red Task:

- Series of Logic Problems + Mental Rotation (approx. 30 minutes)

The Green Task:

- Photo Hunt + Survey (approx. 10 minutes)

You will now complete examples of each task.

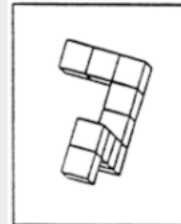
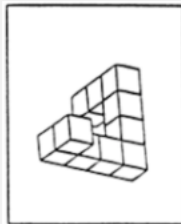
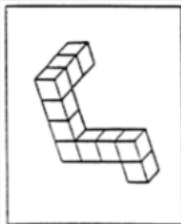
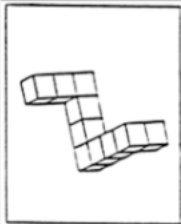
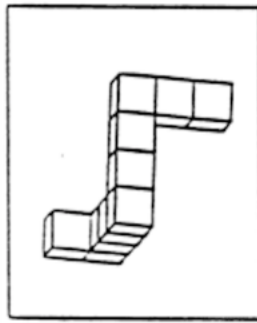
**** You will be paid for 30 minutes of time regardless of which task you complete****

**** BUTTON APPEARS AFTER 20 SECONDS ****

Red Task Examples

Mental Rotation Task

Looking at the shape below, select the photo that depicts the same shape, rotated in space.



Next >>

Red Task Examples

Logic Problem

Please read the following carefully, then select the answer you believe to be most correct.

Laird: Pure research provides us with new technologies that contribute to saving lives. Even more worthwhile than this, however, is its role in expanding our knowledge and providing new, unexplored ideas.

Kim: Your priorities are mistaken. Saving lives is what counts most of all. Without pure research, medicine would not be as advanced as it is.

Laird and Kim disagree on whether pure research...

- ☐ derives its significance in part from its providing new technologies.
- ☐ expands the boundaries of our knowledge of medicine.
- ☐ should have the saving of human lives as an important goal.
- ☐ has its most valuable achievements in medical applications.
- ☐ has any value apart from its role in providing new technologies to save lives.

Next >>

Green Task Examples

Spot the Difference

Some things are different in the images below. Please click on the image where one of the differences is.



Next >>

Green Task Examples

Survey Question

Please answer the following question honestly. We are interested in how people score on a variety of personality measures.

I am the life of the party.

Disagree	Slightly Disagree	Neutral	Slightly Agree	Agree
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Next >>

**** ATTENTION CHECK ****

There are lots of different types of questions that we may ask participants. Some types of questions look at personality, whereas others may test certain sets of skills. Others may test to ensure that participants read the entire question. Please select "Somewhat Disagree" from the selection below.

Strongly Disagree 1	Disagree 2	Somewhat Disagree 3	Neither Agree Nor Disagree 4	Somewhat Agree 5	Agree 6	Strongly Agree 7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Next >>

To conduct unbiased research, it's important that researchers don't know which tasks participants complete.

We call this being "blind" to condition.

To run a blind experiment, researchers cannot know which task (i.e. the **Red Task** or the **Green Task**) you and the others in your group completes.

Next >>

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We have a newly developed assignment procedure to help run "blind" experiments.

Some participants from each group will be randomly selected to assign tasks.

Selected participants can assign tasks one of two ways:

They can **choose** which task they want to complete. Whatever task they do not choose, another participant will complete.

OR

They can use a **randomizer** to assign tasks.

**** NEXT BUTTON APPEARS AFTER 20 SECONDS ****

From your group, we are now deciding who will assign tasks.

If you are selected, you will choose how to assign tasks.

If you are not selected, you will watch a screen recording of another participant choosing how to assign tasks.

Again, participants can either **choose** which task they want to complete and give the other task to another participant, or they can use a **randomizer**.

This may take up to 1 minute. Please advance when you have read the instructions fully.

Next >>

Randomly Selecting Participant...



**** SPINNER MOVES, AUTOADVANCES AFTER 25 SECONDS. ****

Selection Complete.

Next >>

**** CONDITION 1: SELF****

(YOU) have been randomly selected to assign roles.

Next >>

Please read the following instructions carefully, the next button will not appear for 15 seconds:

We have a newly developed assignment procedure to help run double-blind (i.e. experimenter blind) experiments.

Some participants from each group will be randomly selected to assign tasks.

Selected participants can assign tasks one of two ways

1. They can choose which task they want to complete. Whatever task they do not choose, another participant will complete.
2. They can use a randomizer to assign tasks.

How would you like to assign tasks?

I will choose <input type="radio"/>	Randomization <input type="radio"/>
--	--

**** IF SELECTS "I WILL CHOOSE"**

Which task would you like to assign to **YOURSELF**?

(Remember, whichever task you do not choose will be assigned to another participant.)

The Green Task <input type="radio"/>	The Red Task <input type="radio"/>
---	---------------------------------------

Next >>

Thank you for your selection.
You have selected to complete the GREEN TASK.
Another participant will complete the RED TASK.

Next >>

**** IF SELECTS "RANDOMIZER", PARTICIPANTS ARE TOLD THEY'VE BEEN GIVEN THE GREEN TASK ****

**** CONDITIONS 2, 3 AND 4 ARE ALL THE SAME EXCEPT FOR THE NAME OF THE OTHER PARTICIPANT****

CONDITION 2 (UNAFFILIATED OTHER):

ANOTHER PARTICIPANT has been randomly selected to assign roles.

CONDITION 3 & 4 (INGROUP AND OUTGROUP):

Player 3 (Overestimator) has been randomly selected to assign roles.

Next >>

**** PARTICIPANTS ARE SHOWN EITHER AN INGROUP OR OUTGROUP MEMBER'S NAME****

You will watch another participant (Player 3, Overestimator) read a set of instructions and assign themselves one of two tasks:

The Red Task:

-Series of Logic Problems + Mental Rotation (approx. 30 minutes)

The Green Task:

Photo Hunt + Survey (approx. 10 minutes)

****All participants will be paid for 30 minutes of time regardless of condition****

You will be shown the screen recording of their choice. It may take up to 1 minute for them to make their choice. You will advance when the screen recording is ready to be viewed. Please click next to enter the waiting room.

Next >>

**** SPINNER MOVES, WAIT 25 SECONDS ****

Waiting for **Player 3 (Overestimator)** to make their choice...



You will be automatically advanced when the screen recording is complete.

Timing

**** WAIT 45 SECONDS ****

Screen recording from another participant is currently being uploaded and converted to video for you to view. This may take 30-45 seconds for processing, thank you for your patience.

**** PARTICIPANTS THEN WATCH A SHORT VIDEO – VIDEO IS UPLOADED ON GITHUB ****

**** QUESTION OF INTEREST BLOCK ****

Do you think the assignment procedure for tasks is blind (e.g. the researchers are not assigning tasks)?

☐ Yes

☐ Maybe

☐ No

How fairly did the other participant act when assigning the tasks?

Extremely
Unfairly

Unfairly

Somewhat
Unfairly

Neither
Fairly
or
Unfairly

Somewhat
Fairly

Fairly

Extremely
Fairly

How likely do you think people are to assign themselves the green task?

Extremely unlikely
0 1

Somewhat unlikely
2 3

Neither likely nor unlikely
4 5 6

Somewhat likely
7 8

Extremely likely
9 10

Green Task



Do you have any other feedback on the new "experimenter-blind" task assignment procedure?

**** DEBRIEF ****

Thank you for participating in our experiment. The experiment is now over, and you do not have to complete any more tasks.

Before we explain the purpose of our study, please answer the following questions about the experiment.

What did you think was the purpose of this experiment?

Did you believe that you were talking to real people in the chat phase?

☐ Yes

☐ No

Did you believe that you were watching a real person's task selection via screen recording?

☐ Yes

☐ No

Is there anything else you'd like us to know?