

Science Fair

Log Book

Roya Hodjati
2025/2026 CYSF

11/2/25

Topics

- Plant Growth
- Mental + Physical Health
- Improving the Planet's Pollution
- Coke and Mentos
- Baking Soda Volcano
- Culinary Chem
- Twin Telapathy
- Life On Mars
- The Sun Exploding

11/8/25

Project Info

Project: Twin Telepathy

Why:

- Interesting
- No one knows if it exists
- Will help scientists in the future

11/11/25

Experiment:

4 groups of 2:

- Identical Twins
- Siblings
- Friends
- Strangers (Know who the other is, but has no information about them)

Pairs are separated and recorded in different rooms so that they aren't seen or heard by the other pair member when doing the same actions such as:

- Standing On One Foot
- Pretending You Are On A Phone Call
- Taking A Picture
- Making a Silly Face
- Etc.

Data will be collected and compared in each group to see which group got the most questions the same and I will research why that is and see if it matches my hypothesis.

11/17/25

Timeline

Today-Dec: Planning

Dec-Jan: Research, Hypothesis, Gathering People Needed For Experiment, Starting Actual Project

Jan-Feb: Finishing Project, Making Presentation, Starting Physical Backboard

11/19/25

Research (Ahead Of Schedule!)

Source: <https://pubmed.ncbi.nlm.nih.gov/38331693/>

Jotnotes:

- 14 twins were chosen because they did well on a test
- Twins took turns being sender and receiver
- Sender was shocked and receiver was relaxed while they looked at receiver's skin
- Looked at skin to see if they could detect if sender was being shocked
- Twins were in different rooms so that no cheating happened
- Twins may have connected minds
- GB was able to correctly guess 18 times when the sender was shocked
- Only one of three tests was significant
- The twin's feelings didn't seem to matter

12/2/25

Question & Hypothesis

Question: Are twins able to read each other's minds, and is it because they have a mental connection with each other?

Hypothesis: Because twins were connected in the womb, I think that twins can read each other's minds and they will get the most questions the same at the same time.

12/2/25

Procedure

1. Twins will be recorded doing the actions (Stand on one foot, Make a silly face, pretend to take a photo, and pretend to be on a phone call.)
2. Same is done with the siblings
3. Same is done with the friends
4. Same is done with the strangers

12/28/25

Data

Twins: 📺 Twins.MOV

Standing on one foot: Almost the same, just different feet at different times.

Making a silly face: Both stuck out their tongues, but at different angles.

Taking a photo with hands: Same action, different hands.

Being on a phone call: different actions with opposite hands, not alike.

Generally: None were exactly the same, but phone call was completely different.

Siblings: 📺 Siblings (1).mov

Standing on one foot: Basically the same, slightly at different times, but one foot was higher than the other's foot.

Making a silly face: Both stuck out tongues, but one was forward and very enthusiastic and the other was sideways, hands holding the sides of mouth and less enthusiastic.

Taking a photo with hands: The same, but at different times.

Being on a phone call: Same action, different hands.

Generally: 1&3 were the same but slightly different timing, and the rest were almost the same.

Friends: 📺 Friends.MOV

Standing on one foot: Same foot and almost at the same time.

Making a silly face: Both stuck out tongue, but did different things with hands.

Taking a photo with hands: same action, but only one actually pressed an imaginary button.

Being on a phone call: Different actions with different hands, not the same at all.

Generally: Only 1 was the same but at a different time, the rest were slightly different.



Strangers: 🎬 Strangers.MOV

Standing on one foot: same action, different feet at slightly different times.

Making a silly face: Both stuck out tongues, but in different directions, and one did things with eyes as well.

Taking a photo with hands: Same action, but at slightly different times.

Being on a phone call: Same action, same hand, different times.

Generally: Mainly the same with slight differences and slight time differences as well.

1/3/26

Analysis

Twins: 3/4

Siblings: 4/4

Friends: 3/4

Strangers: 4/4

Siblings were the closest, Twins and Friends were tied at second, and the strangers were farthest. Even though strangers and siblings got the highest score, strangers were at the bottom because they weren't quite the same actions done.

1/7/26

Conclusion

Twin telepathy does not exist because they did not get the highest score, but as I predicted, strangers got the lowest score.

1/18/26

Acknowledgements

Golsa (Participant in Experiment)

Golbarg (Participant in Experiment)

Hannah Hodjati (Camera Women, Participant in Experiment)

1/18/26

Applications

- Use more twins for more accurate results
- Do not let other groups see the groups doing the experiment so that they don't get ideas and ruin the data