



PARENT/GUARDIAN INFORMATION SHEET

Visual comfort levels in autistic and non- autistic children

Autistic and non-autistic children's ratings of images and videos



Overview

- We are running an online study to find out what children find comfortable and uncomfortable to look at.
- The findings will be used to make places (like schools) and materials more accessible.
- We are inviting autistic and non-autistic children aged 9-14 years to take part.
- Autistic children who take part must have a diagnosis. Non-autistic children who take part cannot have any developmental conditions (e.g., ADHD, dyslexia).
- Children with migraine or epilepsy cannot take part, for safety reasons.
- Children will see images and videos in an online game. They will be asked to say whether they are comfortable or uncomfortable to look at.
- Parents will fill in short questionnaires.
- Everything will take under 40 minutes.
- You will have the chance to win a £25 voucher after taking part.
- A researcher will invite you and your child to a short video call before sending you a link to the study.

We would like to invite you and your child to take part in an online study run by the University of Birmingham. We are looking at how children respond to different everyday images. We know that there is a lot of information here. This is because we want you to understand why the research is being done and what it involves. Then you can decide whether to take part. Please read this information carefully and discuss it with your child. Please ask us if you have any questions.

If you need this information in another format, please check our website or ask us.

What is this study about? Why is it important?

Autistic people often process sensory information differently than non-autistic people. Sometimes autistic children can be more reactive to the visual environment (like lights, colours or patterns). This can make looking at certain things, or going to certain places, uncomfortable.

In this online study, we will find out exactly which features of everyday images (e.g. buildings, wallpaper, patterns) are comfortable and uncomfortable for autistic children and non-autistic children. This will tell us whether autistic children differ from non-autistic children in what causes them discomfort. Our findings will be used in future to make visual materials and environments more accessible for autistic children.

Who can take part?

We are inviting children aged 9-14 years and their parents/guardians to take part. Your child can take part if either:

- They have a diagnosis¹ of autism

OR

- They have no diagnosed developmental conditions (e.g., autism, ADHD, dyslexia) and they are not on the neurodevelopmental pathway.

¹ By 'diagnosis', we mean a formal recognition or identification of autism by a qualified healthcare professional. We know that some people prefer these other terms.

Your child cannot take part if they have diagnosed or suspected migraines or epilepsy. This is to avoid seizures and migraines.

Children cannot wear coloured lenses during the computer activities, because they change the visual information at the eyes. Please contact us if your child wears coloured lenses.

What can we expect if my child and I take part?

You and your child will be invited to take part in some online activities on a computer or a tablet (not a phone).



For your child:

- Your child will be shown a range of everyday images (e.g. pictures of buildings, wallpaper patterns, and scenes). They will be asked to rate if they find each image comfortable or uncomfortable to look at. We are interested in what children think, so there are no right

or wrong answers. This activity will be part of a child-friendly game, with cat and dog characters.

- Your child should wear their glasses if they need them.
- We will ask your child to do a quick reasoning activity (puzzles).
- All of these activities will take **20 minutes in total** for your child.

For you:

- We will ask you to complete some questionnaires about your child's development (including autism traits) and sensory processing
- These will take approximately **20 minutes** for you to complete.
- You will complete the questionnaires after your child completes the activities online.

We are doing these activities for research – it is not a test. No judgment will be put on children or parents.

What would happen after we take part?

- You can choose to be entered into a prize draw to win one of 10 £25 gift vouchers once the tasks and questionnaires are finished.
- If you would like a summary of the overall results of the study, we will send this to you once the study has finished.
- We will publish the overall findings in a scientific journal. We will present the findings at conferences.

Do my child and I have to take part?

No – you and your child can choose whether to take part. If you decide to take part, both you and your child will be asked to join a short video call to confirm that you and your child are fully informed and want to take part. If you later decide you no longer want to take part, you can take away your consent at any time by contacting the researchers. You do not need to give a reason. It is important that children know they can stop taking part, or take a break, at any time.

Who is involved in the study?

This study is being run by Dr Cathy Manning (Principal Investigator), Dr Sam Tyler (post-doctoral researcher) and research assistants (Lily Herbert, Aneesa Begum). It is funded by the Medical Research Council. The study was designed with input from autistic children and adults, parents of autistic children and professionals working with autistic children.

What are the possible risks of taking part?

How will my child be kept safe and comfortable?

This study involves seeing everyday images, like wallpaper patterns or buildings, which may be uncomfortable for some children. The study has been designed with input from autism community consultants. It has also been found to be acceptable for children. However, there is a chance that some children may experience distress, boredom or tiredness. We will do all we can to avoid this. Child safety and comfort is very important to us.

- You can watch your child for signs of distress
- Your child can take a break or stop taking part at any time.
- Children can use sensory supports (e.g., fidget toys)
- If your child shows any signs of distress, please stop the study
- The research team is available to address concerns.
- All researchers have DBS checks.

What are the benefits of taking part?

- Children normally enjoy taking part.
- Families will have the chance to win a £25 voucher.
- The findings will help children in the future, by showing what types of visual information are comfortable or uncomfortable. This information can be used in designing resources, schools and public spaces.

What happens to our information?

- * The personal information we collect about you and your child is kept fully confidential.

Postdoctoral Researcher: Dr Sam Tyler, s.j.tyler@bham.ac.uk; 0121 41 46241
Principal Investigator: Dr Cathy Manning, c.manning@bham.ac.uk; 0121 41 45517
General email: cdsyouthresearch@contacts.bham.ac.uk

- Information collected about your child is stored with a code number, not their name.
- We ask for your child's date of birth so we can see how children of different ages respond. We also use this to check that they are in the right age range for our study. However, no identifying information (e.g., name, date of birth) will be shared with anyone outside of the research team.
- All information and results will be stored securely on password protected computers and University servers or in locked filing cabinets within the University.
- Your contact details will only be used for this study. They will be deleted after we have sent a report of the results and completed the prize draw. However, if you tell us you are interested in hearing about future studies from us, or other researchers at the Centre for Developmental Science at the University of Birmingham, we will keep your details on a secure database.
- Consent records will be kept for 5 years after the project ends. Then they will be destroyed.

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- Anonymised information from this study will be shared with other researchers who apply to use it, so that it can be of greater scientific benefit.
- You can remove your and your child's data before data analysis begins. This will be around 2 weeks after we have seen the last child. Please contact us if you would like your data to be removed.
- You can ask for your contact details to be removed at any time.
- More information about data protection is at the end of this information sheet.

Who has reviewed the study?

This project has passed an ethical review from the STEM Ethics Committee at the University of Birmingham (ref: ERN_3515-Feb2025). All researchers on this project have had criminal record (DBS) checks. We have designed this study with input from autistic children and adults, parents of autistic children, and teachers and professionals who work with autistic children.

What if I have a concern?

If you have any concern about this project, please contact Dr Sam Tyler (s.i.tyler@bham.ac.uk) or Dr Cathy Manning (c.manning@bham.ac.uk). They will get back to you within 10 working days about how they will deal with your concerns. If you are still unhappy, or want to make a formal complaint, please contact the secretary to the Research Committee (Elizabeth Westlake; e.westlake@bham.ac.uk).

What should I do next?

- If you have any questions before taking part, please contact Dr Sam Tyler (s.i.tyler@bham.ac.uk; 0121 41 46241) or Dr Cathy Manning (c.manning@bham.ac.uk; 0121 41 45517).
- If you would like to take part, a researcher will arrange a video call with you and your child. The researcher will confirm your willingness to take part, before sending you a link to the study.
- In the video call, you will need to put your camera on so that we can see you both. This is to stop people

taking part who are not who they say they are. We will not record this call.

GDPR information

The organisation responsible for protection of your personal information is the University of Birmingham (the Data Controller). Queries regarding data protection and your rights should be directed to dataprotection@contacts.bham.ac.uk, or in writing to: The Information Compliance Manager, Legal Services, The University of Birmingham, Edgbaston, Birmingham, B15 2TT.

The University of Birmingham collects, analyses, uses, shares, and retains personal data for the purposes of research in the public interest. Under data protection law, we are required to inform you that this use of the personal data we may hold about you is on the lawful basis of being a public task in the public interest and where it is necessary for scientific or historical research purposes. If you withdraw from a research study, which processes your personal data, dependant on the stage

of withdrawal, we may still rely on this lawful basis to continue using your data if your withdrawal would be of significant detriment to the research study aims. We will always have in place appropriate safeguards to protect your personal data.

If we have included any additional requests for use of your data, for example adding you to a registration list for the purposes of inviting you to take part in future studies, this will be done only with your consent where you have provided it to us and should you wish to be removed from the register at a later date, you should contact Dr Cathy Manning by email (c.manning@bham.ac.uk) or by phone (0121 41 45517).

You have certain rights under data protection law which are:

- Withdraw your consent, for example if you opted in to be added to a participant register
- Access your personal data or ask for a copy

- Rectify inaccuracies in personal data that we hold about you
- For your details to be removed from systems that we use to process your personal data
- Restrict uses of your data
- Object to uses of your data, e.g. retention after you have withdrawn from a study

Some restrictions apply to the above rights where data is collected and used for research purposes. You can find out more about your rights on the website of the Information Commissioners Office (ICO) at <https://ico.org.uk>.

You also have a right to complain the ICO if you are unhappy with how your data has been handled. Please contact the University Data Protection Officer in the first instance.

Thank you for your interest in this study.