Supplement

 We used the Autism Diagnostic Observation Schedule, Second Edition (ADOS-2; Lord et al., 2012) to assess autism-related symptoms. Based on ADOS comparison scores, the FXS group (*M*=4.09, *SD*=2.73) and the comparison group (*M*=2.96. *SD*=2.69) were not statistically different on autism-related symptoms, *t*(53)=1.53, *p*=.131.

Table S1. Topics of conversation in the no-prompt and prompt conditions.

|  |  |
| --- | --- |
| No Prompt Condition | Prompt Condition |
| Idiosyncratic topic | Idiosyncratic topic |
| School day | Teacher |
| After school | TV shows |
| Pets | Sports |
| Companions | Family |
| Playing games | Hobbies/interests |
| Vacations | Favorite foods/restaurants |
| Idiosyncratic topic | Idiosyncratic topic |

Figure S1. Path diagram of the model used to estimate trajectories of pupil dilation and gaze behavior within the no prompt and prompt conditions.



Note. Grp=Group; Int=Intercept; Slp=Slope; C=Conversation Block. Triangles represent a constant of 1 that is used to estimate mean structure. Variances and covariance are depicted as double headed arrows.

References

Lord, C., Rutter, M., DiLavore, P. C., Risi, S., Gotham, K., & Bishop, S. L. (2012). *Autism Diagnostic Observation Schedule, Second Edition (ADOS-2) Manual (Part 1): Modules 1-4*. Torrance, CA: Western Psychological Services.