**Supplementary material**

Novel objects

*Kig*: Small hollow plastic shape filled with purple (orange for version 2) plasticine, with yellow plastic circles stuck to the outside.

*Donka*: Game pen which consisted of a pen with a clear plastic container attached to the end, with red (blue for version 2) play-doe covering the nib and pen logo.

*Rinta*: Shape made out of blue (red for version 2) play-doe.

*Dax*: Pink glue spreader (version 2 had yellow pipe-cleaner tied around neck).

*Koba*: Four coloured straws (two green & two orange for version 1 and two green and two purple for version 2) glued into a piece of yellow (black for version 2) play-doe.

*Sav*: Orange (yellow for version 2) card covered toothpaste box, with one pyramid shaped end and one end left open. Four circular holes were cut into top.

*Tidgy*: Shape made of green and yellow (white and red for version 2) plasticine.

*Mov*: Cereal bar box covered in blue (green for version 2) card with green (pink for version 2) scrunched-up paper glued to sides and two shapes cut out of front.

*Coodle*: Shape made out of blue (red for version 2) play-doe.

*Tez*: Orange (blue for version 2) hollow spiky ball.

*Wug*: Pink (blue for version 2) painted cotton wool ball.

*Binto*: Glitter pipe with blue (orange for version 2) card triangle sticking out one end (and red pipe-cleaner wrapped around the middle for version 2).

*Table S1.* Compounds used in Experiments 1, 2, and 3 as well as details of how they were combined to form function and attachment relations.

|  |  |  |
| --- | --- | --- |
| **Compound** | **Function relation** | **Attachment relation** |
| kig donka | Top was taken off donka, kig placed inside, and top replaced | Kig glued to side of donka |
| wug binto | Binto was used to push wug along | Wug glued to side of binto |
| koba sav | Koba was placed in side of sav | Straws of koba sticking out of holes of sav |
| tidgy mov | Tidgy was pushed into frontal hole of mov | Tidgy glued to top of mov |
| rinta dax | Dax rolled over rinta | Rinta glued to end of dax |
| coodle tez | Tez covered and enveloped coodle | Coodle glued to side of tez |

N.B. For the Attachment relation object-pairs the constituent objects were assembled before the experiment began i.e. participants did not see them being assembled. For the Function relation object-pairs the constituent objects were combined in front of the participants (i.e. their function was demonstrated).

*Table S2.* Compounds used in Experiments 4 and 5 as well as details of how they were combined to form Function and Attachment relations.

|  |  |  |
| --- | --- | --- |
| Compound | Function relation | Attachment relation |
| star hat | A hat for hiding a star in | A hat with a star glued on it |
| apple pen | A pen for rolling an apple | A pen with an apple pressed on it |
| teddy book | A book for covering a teddy | A book with a teddy glued on it |
| car spoon | A spoon for flipping a car over | A spoon with a car glued to it |
| bottle duck | A duck for rolling a bottle | A duck with a bottle glued to it |
| ball sock | A sock for putting a ball in | A sock with a ball glued on it |