

S5 Table. Neural representation in bilateral pIPS

| Three-way Mixed ANOVA * | Left pIPS | | Right pIPS | |
|--|--------------------------|---------------------|--------------------------|---------------------|
| Groups (EB vs. SC) | F(1, 30) = 2.925e-5 | p = 0.996 | F(1, 30) = 0.350 | p = 0.559 |
| Tasks (Shape vs. Conceptual) | F(1, 30) = 0.840 | p = 0.367 | F(1, 30) = 0.517 | p = 0.478 |
| Representations (Shape vs. Conceptual) | F(1, 30) = 11.158 | p = 0.002 | F(1, 30) = 12.745 | p = 0.001 |
| Groups × Tasks | F(1, 30) = 2.203 | p = 0.148 | F(1, 30) = 0.676 | p = 0.417 |
| Groups × Representations | F(1, 30) = 1.104 | p = 0.302 | F(1, 30) = 2.087 | p = 0.159 |
| Tasks × Representations | F(1, 30) = 26.524 | p < 0.001 | F(1, 30) = 15.401 | p < 0.001 |
| Groups × Tasks × Representations | F(1, 30) = 1.819 | p = 0.188 | F(1, 30) = 4.597 | p = 0.040 |

* The Groups factor was between-subject, whereas Tasks and Representations were within-subject factors.