

Materials List for:

Utilizing Electroencephalography Measurements for Comparison of Task-Specific Neural Efficiencies: Spatial Intelligence Tasks

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URL: <https://www.jove.com/video/53327>

DOI: [doi:10.3791/53327](https://doi.org/10.3791/53327)

Materials

Name	Company	Catalog Number	Comments
Emotiv EPOC Model 1.0	Emotiv	Model: Emotiv Premium	"High resolution, multi-channel, portable EEG system."
Emotiv Control Panel (software)	Emotiv		Used for data collection.
Emotiv Testbench (software)	Emotiv		Used for data collection.
Virtual Serial Port Emulator - VSPE (software)	ETERLOGIC.COM		Used COM10 in data collection. Available as a free download, depending on the operating system.
E-Prime 2.0 (software)	Psychology Software Tools		Used for data collection (presentation of problems to participants and collection of markers for different phases).
EEGLab 13.4.4b (software)	Swartz Center for Computational Neuroscience (SCCN)		Used for data analysis. "An open source environment for electrophysiological signal processing". SCCN is a Center of the Institute for Neural Computation, the University of California San Diego.
MATLAB R2014b	The Mathworks, Inc.		Used to run EEGLab
Microsoft Excel 2013	Microsoft		Used to assemble and compare tabulated results from EEGLab & MATLAB, to create tables
Camcorder with built in Mic	Canon	CNVHFR50	Used to record sessions
Syringe Kit (5 cc syringe & 16 G blunted needles x 2)	Electro-Cap Intl. Inc.	E7	For keeping the EEG cap's felts damp.
Nuprep EEG Skin Prep Gel	Weaver and Company	10-30	For cleaning the mastoid process.
Sanitizer	Purell	S-12808	For sanitizing hands