		Experiment 1		Experiment 2a			Experiment 3	
fROI	SProd vs.	SProd vs.	SProd vs.	SProd vs.	SProd vs.	SProd vs.	SProd vs.	SProd vs.
	fixation	N	VisEvSem	fixation	N	VisEvSem	fixation	N
IFGorb	d = 4.042	d = 3.069	d = 5.665	d = 1.835	d = 1.639	d = 1.122	d = 1.656	d = 2.300
	p < 0.001	p < 0.001	p < 0.001	p = 0.004	p = 0.033	p = 0.016	p = 0.012	p = 0.003
IFG	d = 4.183	d = 3.939	d = 4.292	d = 2.213	d = 2.082	d = 1.754	d = 2.449	d = 2.452
	p < 0.001	p < 0.001	p < 0.001	p = 0.001	p = 0.014	p = 0.016	p = 0.001	p = 0.003
MFG	d = 3.409	d = 2.777	d = 3.892	d = 2.545	d = 1.530	d = 1.184	d = 3.115	d = 3.300
	p < 0.001	p < 0.001	p < 0.001	p < 0.001	p = 0.033	p = 0.016	p < 0.001	p = 0.001
AntTemp	d = 3.928	d = 3.559	d = 4.967	d = 1.374	d = 1.161	d = 0.904	d = 2.105	d = 2.519
	p < 0.001	p < 0.001	p < 0.001	p = 0.019	p = 0.068	p = 0.035	p = 0.003	p = 0.003
PostTemp	d = 4.391	d = 3.561	d = 4.785	d = 2.251	d = 1.225	d = 1.072	d = 2.434	d = 2.410
	p < 0.001	p < 0.001	p < 0.001	p = 0.001	p = 0.068	p = 0.017	p = 0.001	p = 0.003
AngG	$d = 2.058 \\ p < 0.001$	d = 3.319 p < 0.001	d = 1.688 p = 0.007	d = 0.630 p = 0.128	d = 0.928 p = 0.118	d = 0.702 p = 0.228	d = 1.393 p = 0.025	d = 1.575 p = 0.003
Language network	d = 2.241 p < 0.001	d = 1.832 p < 0.001	d = 2.081 p < 0.001	$d = 1.527 \\ p < 0.001$	d = 1.054 p < 0.001	d = 1.037 p < 0.001	$d = 1.731 \\ p < 0.001$	d = 1.587 p < 0.001

Table 1: Q1: Does sentence production elicit a response in the language network?

	Experiment 2b							
fROI	SProd (typed) vs.	SProd (typed) vs.	SProd (typed) vs.	SProd (typed) vs.				
	fixation	N	VisEvSem	SProd				
IFGorb	d = 1.507	d = 1.263	d = 1.603	d = 0.501				
	p = 0.018	p = 0.121	p = 0.025	p = 0.383				
IFG	d = 1.771	d = 1.283	d = 1.650	d = 0.614				
	p = 0.018	p = 0.121	p = 0.025	p = 0.346				
MFG	d = 1.494	d = 0.361	d = 1.492	d = 0.580				
	p = 0.018	p = 0.631	p = 0.028	p = 0.333				
AntTemp	d = 0.561	d = 0.274	d = 0.326	d = 0.813				
	p = 0.198	p = 0.631	p = 0.680	p = 0.333				
PostTemp	d = 1.443	d = 0.488	d = 1.764	d = 0.707				
	p = 0.018	p = 0.631	p = 0.025	p = 0.337				
AngG	d = 0.015	d = 0.006	d = -0.077	d = 1.216				
	p = 0.969	p = 0.992	p = 0.892	p = 0.283				
Language network	$d = 1.027 \\ p < 0.001$	d = 0.498 p = 0.003	$d = 0.576 \\ p < 0.001$	d = 0.459 p = 0.006				

Table 2: Q2: Does the language network's response to sentence production generalize across output modality?

	Experiment 1		Experiment 2a		Experiment 2b		Experiment 3
fROI	WProd vs. NProd	SProd vs. WProd	WProd vs. NProd	SProd vs. WProd	WProd (typed) vs. NProd (typed)	SProd (typed) vs. WProd (typed)	SProd vs. WProd
IFGorb	d = 0.184 p = 0.736	d = 2.503 p < 0.001	d = 0.659 p = 0.308	d = 1.321 p = 0.081	d = -0.150 p = 0.825	d = 2.966 p < 0.001	d = 2.727 $p = 0.002$
IFG	d = 1.506 p = 0.082	d = 1.867 p = 0.004	d = 1.572 p = 0.085	d = 0.290 p = 0.610	d = -0.125 p = 0.825	d = 1.570 p = 0.014	d = 1.003 p = 0.124
MFG	d = 1.064 p = 0.133	d = 1.628 p = 0.009	d = 0.717 p = 0.308	d = 0.497 p = 0.464	d = 0.148 p = 0.825	d = 1.942 p = 0.005	d = 1.158 p = 0.097
AntTemp	d = 0.620 p = 0.318	d = 2.419 p < 0.001	d = -0.122 p = 0.829	d = 1.264 p = 0.081	d = -1.881 p = 0.029	d = 2.988 p < 0.001	d = 2.251 p = 0.005
PostTemp	d = 0.771 p = 0.257	d = 3.795 p < 0.001	d = 0.672 p = 0.308	d = 1.044 p = 0.124	d = -0.831 p = 0.378	d = 3.693 p < 0.001	d = 2.816 p = 0.002
AngG	d = 1.273 p = 0.096	d = 3.529 p < 0.001	d = 1.136 p = 0.184	d = 1.943 p = 0.023	d = -0.769 p = 0.378	d = 2.718 p < 0.001	d = 4.396 p < 0.001
Language network	d = 0.333 p = 0.037	d = 0.668 p < 0.001	d = 0.376 p = 0.023	d = 0.356 p = 0.032	$\begin{vmatrix} d = -0.105 \\ p = 0.524 \end{vmatrix}$	d = 0.830 p < 0.001	d = 0.609 p < 0.001

Table 3: Q3: Does the language network respond to both lexical access and syntactic encoding?

	Experiment 1		Experiment 2a		Experiment 2b		Experiment 3	
fROI	SProd vs.							
	WProd	NProd	WProd	NProd	WProd	NProd	WProd	
LH PostParietal	d = -3.491 p < 0.001	d = 0.871 p = 0.200	d = -1.873 p = 0.059	d = -0.043 p = 0.989	d = -0.962 p = 0.354	d = -1.837 p = 0.039	d = -1.034 p = 0.190	
LH midParietal	d = -1.731	d = -0.066	d = -1.137	d = -1.053	d = -0.530	d = -1.724	d = 0.912	
	p = 0.014	p = 0.907	p = 0.076	p = 0.267	p = 0.594	p = 0.039	p = 0.240	
LH antParietal	d = -1.266 p = 0.053	d = -1.793 p = 0.033	d = -1.194 p = 0.073	d = -1.851 p = 0.060	d = -0.690 p = 0.483	d = -1.706 p = 0.039	d = 1.413 p = 0.114	
LH supFrontal	d = -1.156 p = 0.064	d = 0.964 p = 0.200	d = -0.767 p = 0.200	d = 0.072 p = 0.989	d = -0.267 p = 0.769	d = -0.661 p = 0.364	d = -1.132 p = 0.160	
LH Precentral A PrecG	d = -1.392	d = -0.968	d = -1.400	d = -0.721	d = -0.317	d = -1.093	d = -1.398	
	p = 0.037	p = 0.200	p = 0.064	p = 0.443	p = 0.769	p = 0.128	p = 0.114	
LH Precentral B IFGop	d = -1.232 p = 0.055	d = 0.601 p = 0.373	d = -0.927 p = 0.132	d = 0.171 p = 0.898	d = -0.099 p = 0.906	d = 0.181 p = 0.750	d = -1.132 p = 0.160	
LH midFrontal	d = -1.221	d = 1.895	d = -1.473	d = 0.192	d = -0.444	d = 0.364	d = -0.521	
	p = 0.055	p = 0.031	p = 0.064	p = 0.898	p = 0.673	p = 0.616	p = 0.477	
LH midFrontalOrb	d = -1.036	d = 2.235	d = -1.174	d = 0.184	d = 0.040	d = 0.558	d = -0.828	
	p = 0.089	p = 0.019	p = 0.073	p = 0.898	p = 0.943	p = 0.416	p = 0.275	
LH insula	d = -1.601	d = 0.908	d = -1.092	d = 0.723	d = 0.681	d = 1.627	d = -3.099	
	p = 0.020	p = 0.200	p = 0.083	p = 0.443	p = 0.483	p = 0.039	p = 0.006	
LH medialFrontal	d = -0.990	d = 2.157	d = -0.652	d = 0.678	d = 0.351	d = 1.638	d = -1.290	
	p = 0.098	p = 0.019	p = 0.261	p = 0.443	p = 0.769	p = 0.039	p = 0.134	
RH PostParietal	d = -3.255	d = 0.922	d = -1.622	d = 0.621	d = -1.432	d = -1.376	d = -3.804	
	p < 0.001	p = 0.200	p = 0.059	p = 0.473	p = 0.223	p = 0.055	p = 0.003	
RH midParietal	d = -2.518	d = -1.318	d = -1.363	d = -1.637	d = -1.233	d = -1.802	d = -0.098	
	p = 0.001	p = 0.096	p = 0.064	p = 0.063	p = 0.223	p = 0.039	p = 0.879	
RH antParietal	d = -2.543	d = -1.584	d = -1.364	d = -1.818	d = -0.946	d = -1.468	d = -0.695	
	p = 0.001	p = 0.054	p = 0.064	p = 0.060	p = 0.354	p = 0.047	p = 0.350	
RH supFrontal	d = -2.369 p = 0.002	d = -0.876 p = 0.200	d = -1.662 p = 0.059	d = -0.830 p = 0.443	d = -1.250 $p = 0.223$	d = -1.561 p = 0.042	d = -2.722 p = 0.008	
RH Precentral A PrecG	d = -2.397	d = -0.997	d = -1.283	d = -0.683	d = -1.470	d = -1.455	d = -1.262	
	p = 0.002	p = 0.200	p = 0.073	p = 0.443	p = 0.223	p = 0.047	p = 0.134	
RH Precentral B IFGop	d = -1.720	d = -0.298	d = -1.181	d = -0.459	d = -0.614	d = -0.949	d = -0.452	
	p = 0.014	p = 0.666	p = 0.073	p = 0.650	p = 0.524	p = 0.185	p = 0.517	
RH midFrontal	d = -3.083	d = -0.612	d = -1.633	d = -1.152	d = -0.913	d = -0.563	d = -2.101	
	p < 0.001	p = 0.373	p = 0.059	p = 0.233	p = 0.354	p = 0.416	p = 0.022	
RH midFrontalOrb	d = -2.596 p = 0.001	d = -1.372 p = 0.093	d = -1.386 p = 0.064	d = -1.603 p = 0.063	d = -0.720 $p = 0.483$	d = -0.336 p = 0.617	d = -2.201 p = 0.020	
RH insula	d = -3.602 p < 0.001	d = -0.397 p = 0.572	d = -1.193 p = 0.073	d = -0.326 p = 0.810	d = -0.242 p = 0.769	d = 0.303 p = 0.625	d = -2.960 p = 0.006	
RH medialFrontal	d = -2.505 p = 0.001	d = -0.102 $p = 0.902$	d = -1.171 $p = 0.073$	d = -0.002 $p = 0.997$	d = 0.224 p = 0.769	d = 0.735 $p = 0.320$	d = -2.384 p = 0.015	
MD network	d = -0.692	d = -0.013	d = -0.612	d = -0.212	d = -0.225	d = -0.228	d = -0.353	
	p < 0.001	p = 0.878	p < 0.001	p = 0.015	p = 0.010	p = 0.009	p < 0.001	

Table 4: Q3 [CONTROL]: Is language production more demanding than (non)word production?