Subject	Sensory		Motor		Subjective		-	Loss	
Subject	likelihood		likelihood		prior		fu	function	
	Experiment 1								
\mathbf{LA}	Sc	(1.000)	Sc	(1.000)	b	(1.000)	\mathbf{Sk}	(1.000)	
$_{\rm JW}$	Sc	(0.967)	Sc	(1.000)	\mathbf{b}	(0.960)	St	(1.000)	
TL	Cn	(1.000)	Sc	(1.000)	\mathbf{b}	(1.000)	\mathbf{Sk}	(1.000)	
DB	Sc	(1.000)	Sc	(0.974)	е	(0.997)	\mathbf{St}	(1.000)	
	Experiment 2								
LA	Sc	(1.000)	Sc	(0.997)	g	(1.000)	\mathbf{Sk}	(1.000)	
AC	Cn	(1.000)	Sc	(1.000)	\mathbf{f}	(0.978)	St	(1.000)	
AP	Cn	(1.000)	Sc	(0.981)	\mathbf{b}	(1.000)	\mathbf{Sk}	(1.000)	
HH	Sc	(0.997)	Sc	(0.997)	g	(0.998)	\mathbf{Sk}	(0.875)	
$_{\rm JB}$	Sc	(0.998)	Cn	(0.996)	\mathbf{f}	(0.997)	\mathbf{Sk}	(1.000)	
TZ	Sc	(1.000)	Cn	(1.000)	d	(0.976)	\mathbf{Sk}	(1.000)	
	Experiment 3								
LA	Cn	(0.910)	Sc	(0.990)	b	(1.000)	St	(0.993)	
NY	Sc	(0.988)	Sc	(0.780)	b	(1.000)	\mathbf{Fr}	(1.000)	
$_{\rm JL}$	Sc	(0.528)	Sc	(1.000)	\mathbf{b}	(0.999)	St	(1.000)	
RD	Cn	(1.000)	Sc	(0.996)	\mathbf{b}	(0.998)	\mathbf{Fr}	(1.000)	
PD	Sc	(0.758)	Cn	(1.000)	\mathbf{b}	(0.999)	St	(1.000)	
JE	Cn	(0.896)	Sc	(0.912)	b	(1.000)	\mathbf{St}	(1.000)	
		Experiment 4							
\mathbf{RR}	Cn	(0.986)	Sc	(0.950)	a	(0.998)	St	(-)	
DD	Cn	(0.726)	Cn	(0.641)	\mathbf{f}	(0.511)	St	(-)	
					g	(0.486)			
NG	Cn	(0.980)	Sc	(0.973)	\mathbf{b}	(0.503)	\mathbf{St}	(-)	
					g	(0.458)			

Table S1. Bayesian model comparison: most supported observer model components for Experiments 1–4. Most supported observer model components (posterior probability), for each subject, according to the Bayesian model comparison. A posterior probability p > 0.95 should be considered suggestive evidence, and p > 0.99 significant (posterior probability p > 0.9995 is written as 1.000, with a slight abuse of notation). The sensory and motor likelihoods can either be constant (Cn) or scalar (Sc); the subjective priors (a-g) are described in the Methods section (see main text); the loss function can be Skewed (Sk), Standard (St) or Fractional (Fr) (see also Figure 6 in main text). Note the switch in preferred loss function from Experiments 1 and 2 (which received Skewed feedback) to Experiment 3 (which received Standard feedback). In Experiment 4 the loss function was fixed to Standard to constrain the model selection.