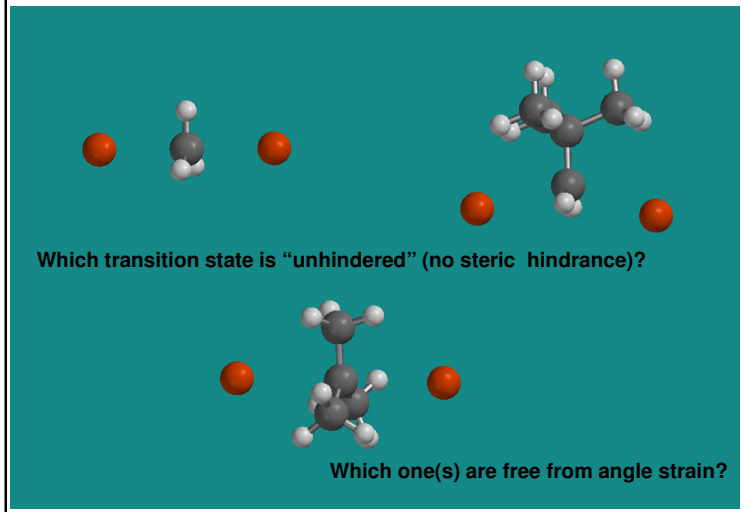

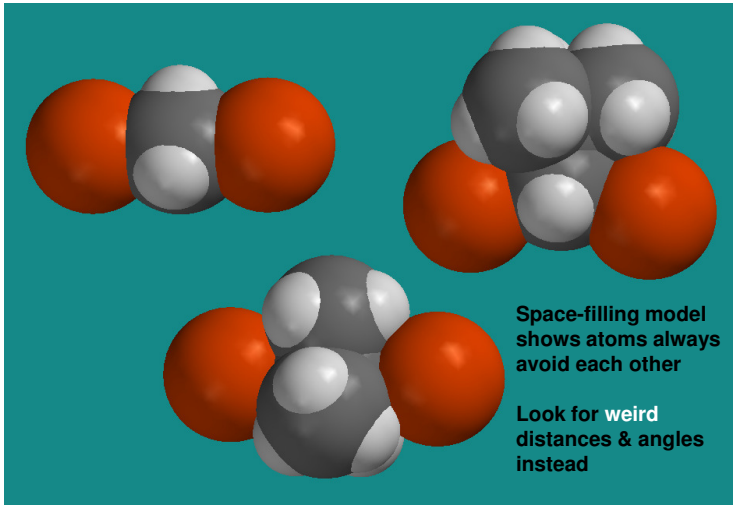

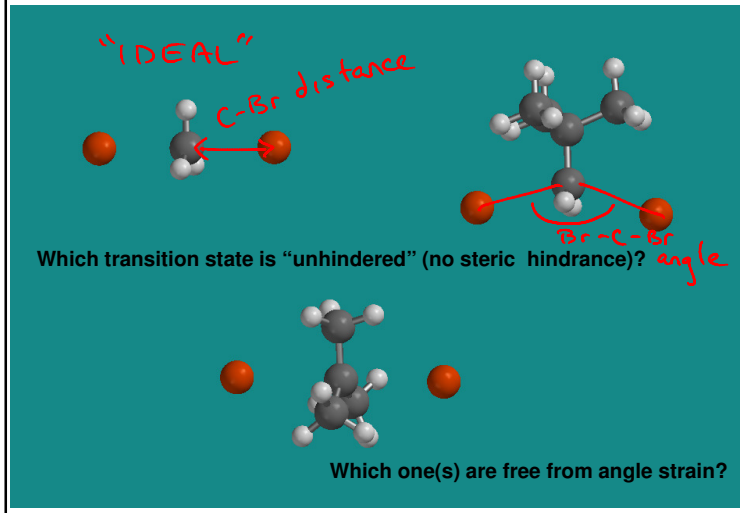

S_N2 Transition State Models
Br^- + xyzC-Br

x	y	z	C---Br distances (Å)	Br---C---Br angle (°)	C	$k_{relative}$
H	H	H	2.49 (1.93)	180	1°	30
CH_3	H	H	2.52 / 2.57	164	1°	≡ 1
t-Bu	H	H	2.63 / 2.61	147	1°	0.00001
CH_3	CH_3	H	2.62	157	2°	.03
CH_3	CH_3	CH_3	2.92 / 2.95	180	3°	no rxn