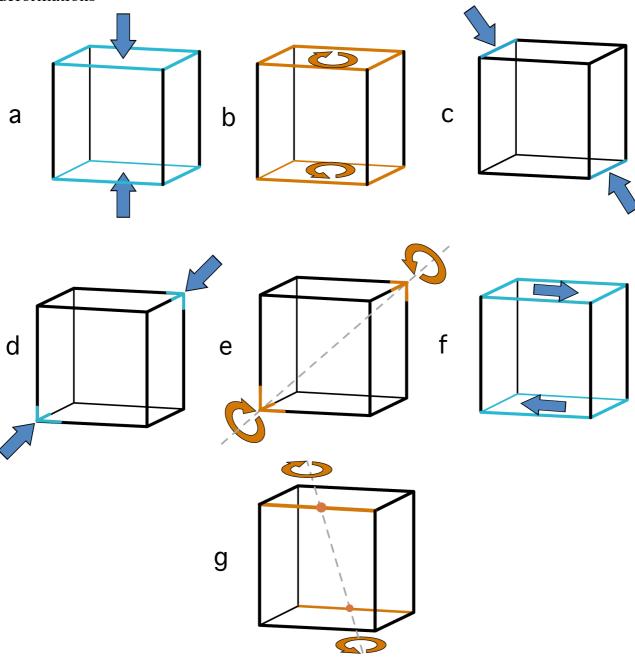
What are the possible deformations of the cube and their corresponding symmetries?

Below are a few possible deformations resulting from compressions and shear deformations



The symmetry of the undeformed cube is $m\overline{3}m$ or more completely $4/m\overline{3}2/m$ and the resulting deformations give the following point groups

a	b	С	d	e	f	g
4/ <i>mmm</i>	422	mmm	<u>3</u> m	32	2/ <i>m</i>	222

It is interesting to note that all those symmetry groups are subgroups of $m\overline{3}m$.