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**group theory deals with symmetry groups which**  
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**each point group is a set of symmetry operation or**  
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inversion center inversion of a point  $x y z$  to  $x y z i$  proper  
axis rotation by  $360/n$   $C_n$  improper axis 1 rotation by  $360/n$   
2 reflection in plane perpendicular to rotation axis  $S_n$  group  
theory mathematical treatment of symmetry symmetry  
operation an operation performed on an object"**molecular  
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chemistry researches and group theory is the tool that is  
used to determine symmetry usually it is not only the  
symmetry of molecule but also the symmetries of some  
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