

#### Rules for Selecting Topics and Video-Making:

1. Each participant can choose at least one topic. Your choice must be communicated to us before 12pm on Friday, the 18<sup>th</sup>.
2. If you choose more than one topic, we hope that you can make videos on all the topics and submit it to us. However, only one video will be submitted for evaluation. It must be remembered that the videos that you make would be forwarded to NCERT, so it is a big chance for you all.
3. These topics have been forwarded by Group Leaders, and once you select a topic, you will be directed to the Group Leader who forwarded that topic.
4. Your video needs to be based on that topic. However, you are free to move onto broader aspects of your topic, which in fact will be encouraged; but you cannot simply jump to deeper concepts, without explaining the basic concepts.
5. The video should be made, keeping in mind, that the viewer might not be well-versed in that subject at all. Thus, videos which explain the concepts from scratch, will be given more credit.
6. Interesting additions/digressions will be given due credit, provided the above points are kept in mind.
7. There should be a strict adherence to the time limit for you video, which will be announced later, during the Finals. A 20-second tolerance limit is allowed – however, any video which exceeds this tolerance limit, will lead to deduction of marks. [“Brevity is the soul of wit.”]
8. While innovative video elements is not necessary, we encourage the use of such elements. We remind you that simply using these elements in your video will not give you credit, they must be relevant and attractive.

## Topics that can be chosen for Video-Making for "Explain The Concept":

1. Gyroscopic Motion
2. Coriolis Force
3. Pericyclic Réactions
4. Lenz's Law
5. Cell motility
6. Machine Learning
7. Viruses - pathology and epidemiology
8. Equivalence relations and partitions
9. The gut microbiome
10. Non ideal gases
11. Hydrogen economy and hydrogen storage materials
12. Pascal's triangle and binomial coefficients
13. Polarization of light
14. Doppler effect
15. Epidemiology models
16. Price equation and Hardy-Weinberg equilibrium
17. Paradoxes in probability
18. Different statistics in counting problems and distributions they lead to
19. Bragg's Law
20. Diffraction
21. Benzynes
22. Logistic growth
23. Metathesis reactions
24. Calculating Pi
25. Phage switch - lysis and lysogeny
26. Emotions
27. Thinking and Reasoning