

## CLASS IX

### Science (Class-IX)

<b>Learning Outcomes</b>	<b>Sources/ Resources</b>	<b>Week-wise Suggestive Activities (to be guided by teachers/parents)</b>
<p><b>The learner</b></p> <ul style="list-style-type: none"> <li>• relates processes and phenomena with causes and effects, such as, symptoms with diseases and causal agents</li> <li>• explains processes and phenomena, such as, spread of diseases and their prevention</li> <li>• measures physical quantities using appropriate apparatus, instruments, and devices, such as, temperature using thermometer, etc.</li> <li>• applies scientific concepts in daily life and solving problems, such as, takes preventive measures to control disease causing agents, etc.</li> <li>• exhibits values of honesty, objectivity, rational thinking,</li> </ul>	<p><b>NCERT/State Textbook</b>  <b>Theme:</b> Why Do We Fall Ill</p> <ul style="list-style-type: none"> <li>• Link 1:  <a href="https://www.who.int/diseasecontrol/emergencies/publications/idhe/2009_london_inf_dis_transmission.pdf">https://www.who.int/diseasecontrol/emergencies/publications/idhe/2009_london_inf_dis_transmission.pdf</a></li> <li>• Link 2:  <a href="https://www.youtube.com/watch?v=bB_Pk0Wr1Zg&amp;t=130s">https://www.youtube.com/watch?v=bB_Pk0Wr1Zg&amp;t=130s</a></li> <li>• Link 3:  <a href="https://www.youtube.com/watch?v=36WwOX1yFqQ&amp;feature=youtu.be">https://www.youtube.com/watch?v=36WwOX1yFqQ&amp;feature=youtu.be</a></li> <li>• Link 4:  <a href="https://www.mohfw.gov.in">https://www.mohfw.gov.in</a></li> <li>• Link 5:  <a href="https://www.mohfw.gov.in/pdf/PreventivemeasuresEng.pdf">https://www.mohfw.gov.in/pdf/PreventivemeasuresEng.pdf</a></li> <li>• Link 6:  <a href="https://www.mohfw.gov.in/pdf/PreventivemeasuresHin.pdf">https://www.mohfw.gov.in/pdf/PreventivemeasuresHin.pdf</a></li> <li>• Link 7:</li> </ul>	<p><b>WEEK 1</b></p> <ul style="list-style-type: none"> <li>• After reading Link 1, try to answer the following: <ul style="list-style-type: none"> <li>➤ Explain how different modes of transmission cause different diseases.</li> <li>➤ Make a table of the different kinds of diseases, their mode of transmission and their symptoms.</li> <li>➤ What kinds of diseases can be prevented by practicing hand-washing?</li> </ul> </li> <li>• After the videos in Link 2 and 3 and reading the information in Link 4, 5, 6, 7 and 8, try to answer the following: <ul style="list-style-type: none"> <li>➤ Explain how the virus can be spread.</li> <li>➤ What is the correct procedure to wash hands?</li> <li>➤ Explain the preventive measure for COVID-19.</li> <li>➤ What can you do as an individual to avoid the spread of COVID-19?</li> </ul> </li> </ul> <p><b>WEEK 2</b></p> <ul style="list-style-type: none"> <li>• If there is a clinical thermometer in your house, measure your body temperature by keeping it in your armpit and compare it with the room temperature. Find out from authentic sources in the internet what the normal body temperature is. Take precautionary measure not to break the thermometer since it contains mercury. If there is no thermometer in your home, watch some videos on how body temperature or temperature in liquids is measured.</li> <li>• Make your own poster about the precautionary measures to be taken in order to avoid the spread of COVID-19 and share</li> </ul>

<p>freedom from myths, superstitious beliefs while taking decisions, respect for life, etc., such as, myth about transmission of diseases, belief that vaccination is not important for prevention of diseases, etc.</p> <ul style="list-style-type: none"> <li>communicates the findings and conclusions effectively, such as, those derived from experiments, activities, and projects both in oral and written form using appropriate figures, tables, graphs, and digital forms, etc.</li> </ul>	<p><a href="https://www.mohfw.gov.in/pdf/Poster_Corona_ad_Eng.pdf">https://www.mohfw.gov.in/pdf/Poster_Corona_ad_Eng.pdf</a></p> <ul style="list-style-type: none"> <li>Link 8: <a href="https://www.mohfw.gov.in/pdf/Poster_Corona_ad_Hin.pdf">https://www.mohfw.gov.in/pdf/Poster_Corona_ad_Hin.pdf</a></li> <li>Link 9: <a href="https://www.indiatoday.in/india/story/coronavirus-cases-in-india-covid19-states-cities-affected-1653852-2020-03-09">https://www.indiatoday.in/india/story/coronavirus-cases-in-india-covid19-states-cities-affected-1653852-2020-03-09</a></li> </ul>	<p>the picture of the poster with your friends, relatives, etc.</p> <ul style="list-style-type: none"> <li>What changes in your lifestyle have you made to avoid contracting various diseases? Make a list on a chart paper/sheet of paper and share a picture of it with your classmates.</li> </ul> <p><b>WEEK 3</b></p> <ul style="list-style-type: none"> <li>Read your textbook and other resources from the internet to explain some of the myths associated with the spread of diseases such as HIV, Tuberculosis, vaccination, COVID-19, etc. Make your own poster about the myths associated with COVID-19 and share the picture of the poster with your friends, relatives, etc., via email, Whatsapp, Facebook, etc.</li> <li>Collect data from reliable sources from the internet about the trends in the number of people infected by COVID-19 in different states in India (Link 9) or in different countries and the number of people who have recovered or succumbed due to the infection. Present your data in the form of an appropriate graph.</li> </ul> <p><b>WEEK 4</b></p> <ul style="list-style-type: none"> <li>Recall the modes of transmission of diseases which you have learned. Now explain the modes of transmission of various diseases in the form of a diagram. Make it as elaborate as possible.</li> </ul>
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Students and Parents/Guardians may also visit NROER, an online educational resource repository of NCERT and NCERT website and explore e-resources available online related to the topic. The following are the links for the activities for easy access.

- Supplementary material on Sanitation and Hygiene: [http://www.ncert.nic.in/publication/Miscellaneous/pdf\\_files/Sanitation\\_hygiene.pdf](http://www.ncert.nic.in/publication/Miscellaneous/pdf_files/Sanitation_hygiene.pdf)

2. Diseases and its causes:  
<https://nroer.gov.in/55ab34ff81fccb4f1d806025/page/5c8f1e7116b51c01ee839478>
3. What is Rotavac?  
<https://nroer.gov.in/55ab34ff81fccb4f1d806025/page/5835786616b51c4587b7aaf5>
4. Vector and Disease:  
<https://nroer.gov.in/55ab34ff81fccb4f1d806025/page/5d39993d16b51c0167542412>
5. Disease caused by microorganisms:  
<https://nroer.gov.in/55ab34ff81fccb4f1d806025/page/5d3add0616b51c01699f91d4>