

**SAMAGRA SHIKSHA-DELHI**

(A Society under Education Department, Govt. of NCT of Delhi)

Lucknow Road, Delhi-110054

Ph: 23810508, 23811442 Email:- spd\_delhi@rediffmail.com

No. D.E (29) (1) (7) (5)/LEP/SS 2022-23 / 351-361

Dated: 28/04/23

**Circular**

**Subject:- Implementation and usage of the Material distributed under LEP Secondary Stage (IX-XII) from the academic year 2023-24-Reg.**

Learning Enhancement/Enrichment Programme under Samagra Shiksha Scheme envisages that each student is given the opportunity necessary for him/her to make meaningful progress in acquiring skills/competencies, through a process of continuous improvement in teaching and learning. The support in this area includes development of teacher support material, supplementary reading material etc. for classes I to XII taking in to account child centric approaches in line with NCF, RTE-Act 2009 and NEP 2020 recommendations.

In this context Samagra Shiksha-Delhi and SCERT Delhi have taken the initiative to develop the content and material for classes IX to XII. All other related details of the content and the material have been explained in the Annexure - I & II and the same is to be used from the academic session 2023-24.

This is issued with the prior approval of the Competent Authority, Samagra Shiksha-Delhi.

Mohinder Pal  
28/04/2023  
(Mohinder Pal)

**Deputy Director of Education  
Samagra Shiksha-Delhi**

Dated: 28/04/23

No. D.E (29) (1) (7) (5)/LEP/SS 2022-23 / 351-361

**Copy for information to:-**

- 1) PA to Director (Education), GNCTD.
- 2) PA to Director (SCERT)
- 3) PA to SPD Samagra Shiksha, Delhi
- 4) Adl.DE (School Branch) Old Sectt, New Delhi.
- 5) Chairperson NDMC, Palika Kendra, Parliament Street, New Delhi.
- 6) CEO, Delhi Cantonment Board, Sadar bazaar, Delhi Cantt., Delhi- 10.
- 7) All DDEs /DPOs -Samagra Shiksha-Delhi
- 8) All HoS (Govt, NDMC, DCB and DSW)
- 9) All DURCCs, Samagra Shiksha-Delhi for wider dissemination
- 10) OS (IT) for uploading on web-site.
- 11) Guard file


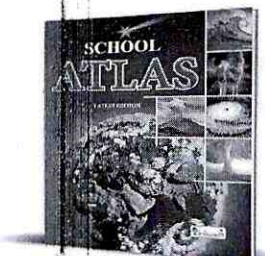
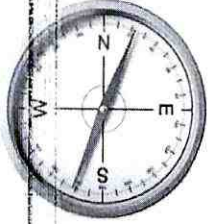
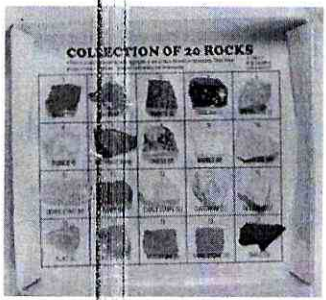
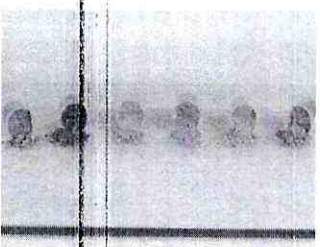
Mohinder Pal  
28/04/2023  
(Mohinder Pal)

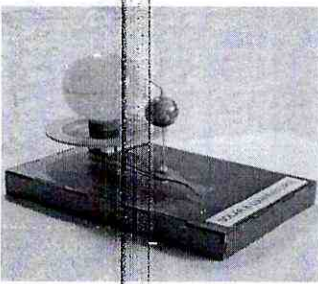
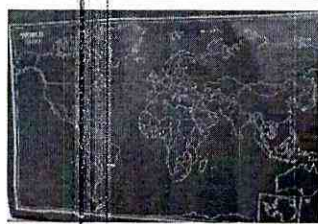
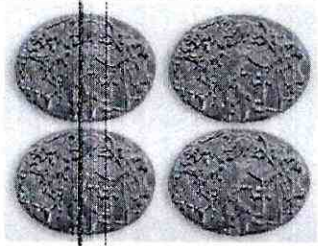
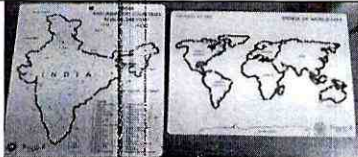
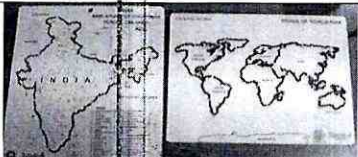

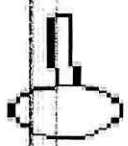
**Deputy Director of Education  
Samagra Shiksha-Delhi**

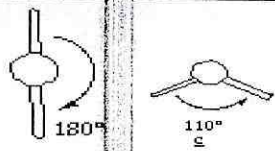
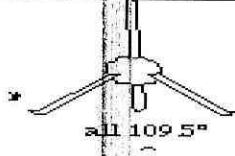
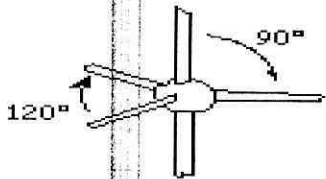
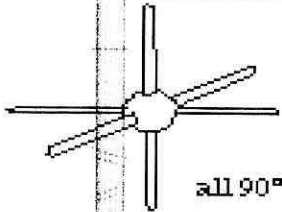
## Content under LEP UTKARSH 2.0 for the year 2023-24

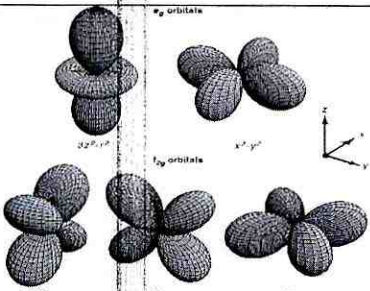
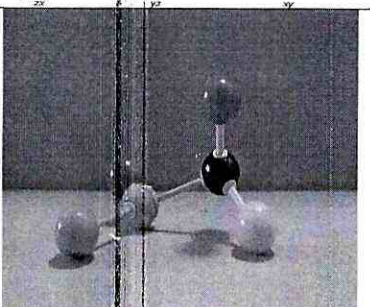
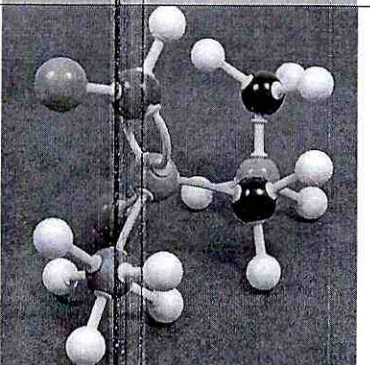
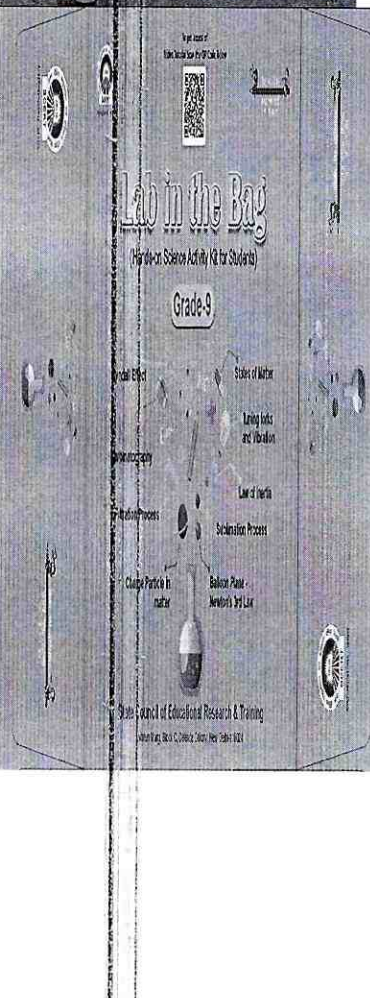

S.No.	Title & class	Medium	Book Title	Type of the material
1	English class 9	English	My Awesome Journal	English Diary
2	English class 10	English	My literary Journal My perspective, Space Expression	English Diary
3	Science class 10	English	Utkarsh 2.0 Science concept maps at a glance	Concept Maps based on C.B.S.E. Syllabus
4	Mathematics class 10	Hindi	Utkarsh 2.0 ganit	Question Bank
5	Mathematics class 10	English	Utkarsh 2.0 Mathematics	Concept development through concept sheets
6	Physics class 11	English	Convergence in Physics	Supplementary reader for the students
7	Accountancy class 11	English	Nishtha 2.0 Accountancy class XI practice sheets	Practice sheets, Comprehensive sheets/ Sample papers and points to remember
8	Biology class 11	English	Utkarsh 2.0 Lets Learn together Biology class 11	Pictorial representation, Intext and practice question for students
9	Business studies 11	English	Utkarsh 2.0 business studies 2023-24 for senior secondary level class XI	Illustrative self engaging material
10	Business studies 12	English	Utkarsh 2.0 business studies 2023-24 for senior secondary level class XII	Illustrative self engaging material
11	Physics class 12	English	Convergence in Physics	Supplementary reader for the students
12	Accountancy 12	English	Nishtha 2.0 Accountancy Practice Sheets	Practice sheets, Comprehensive sheets and Sample papers
13	Political Science class 12	Hindi	Utkarsh ek kadam Safalta ki aur Rajnitik Vigyan	Mind Map, Flow Chart, Pictorial representation and practice question for students
14	Geography class 12	Hindi	Utkarsh Ek kadam safalta ki aur bhugol	Mind Map, Flow Chart, Pictorial representation and practice question for students
15	Biology class 12	English	Utkarsh Learn together	Bio Basics

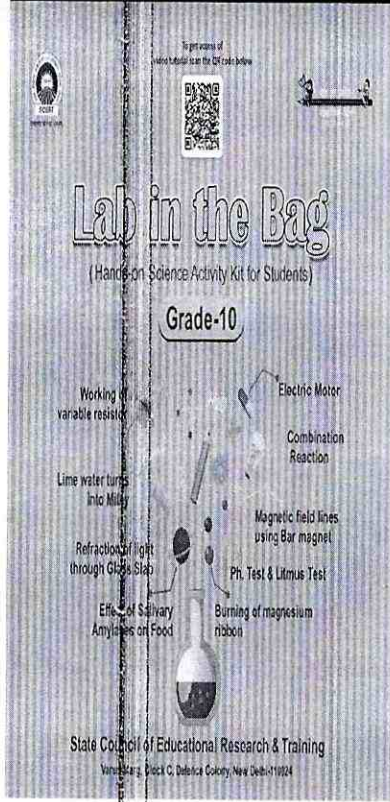

## Material under LEP for Class IX to XIIth

Kit Name	Standard	Items	Qty.	Photo	Description, How to Use
Social Science Kit	IX and X	Globe	1		A globe is a spherical model of Earth. A globe shows the distribution of land and water on the surface of the planet earth. It represents the shape, size, and location of the oceans and continents. It is a three-dimensional sphere that acts as a model of the earth. To be used as a Teaching Aid to demonstrate various concepts in the classrooms.
Social Science Kit	IX and X	Atlas	1		School Atlas cum Map workbook
Social Science Kit	IX and X	Compass	4		To be used as a Teaching Aid to demonstrate various concepts in the classrooms.  Place your compass on the map with the direction of travel arrow pointing toward the top of the map. Rotate the bezel so that N (north) is lined up with the direction of travel arrow. Slide the baseplate until one of its straight edges aligns with either the left or right edge of your map
Social Science Kit	IX and X	Sample of Rocks	1 Set		From this concept, the students will learn about the uses of rocks with various examples. 1. Know about granite uses and pumice stone uses. 2. Understand basalt uses and conglomerate rock. 3. Give examples of limestone uses and slate uses. 4. Understand what is marble. Analyse quartzite is which type of rock
Social Science Kit	IX and X	Sample of Soil	1 Set		Students will be able to: (1) understand the complex nature of soil (components of different layers, and the creatures living in the soil), and (2) see different types of soil including sandy soil, clay soil, loamy soil.

Social Science Kit	IX and X	Working Model of Solar Eclipse	1		<p><b>Lunar Eclipse</b> -Usually, when the Moon is on the far side of Earth from the Sun, the three bodies do not lie in a straight line; instead, the Moon is slightly above Earth and is still illuminated, so we see a full moon. Occasionally, however, Earth passes directly between the Sun and Moon, and the Moon is completely in the Earth's shadow – we call this a lunar eclipse.</p> <p><b>Solar Eclipse</b>- Unlike lunar eclipses, solar eclipses are very rare. Most people will never see one because solar eclipses are only visible from relatively small areas of Earth at any one time. Solar and lunar eclipses have somewhat different causes: during a solar eclipse, we are in shadow. When the Moon passes exactly in front of the Sun, it casts a shadow on Earth. Because the apparent size of the Moon is so much less than that of the Sun, this shadow will only be seen in a small area of Earth.</p>
Social Science Kit	IX and X	Two blank maps (India and world outline chart, Standard size for classroom hanging)	Set of 2		A blank world map is a great way to introduce your students to the continents, countries, and oceans of the world. As the map is without inland borders it can be used for naming continents as well as identifying the locations of countries.
Social Science Kit	IX and X	Specimen Coins of Ancient Times (Gupta, Kanishka, Maurya, etc)	1 Set		Coins are important primary sources of history. They convey the names of kings with their titles and portraits, events, places, dates, dynasties, achievements and logos. The composition of metals in the coins gives us information on the economic condition of the empire.
Map Stencils Geography	IX and X	World Map Stencil	1 Piece per student		Will assist student in drawing out outlines of the maps.
Map Stencils Geography	IX and X	India Map Stencil	1 Piece per student		Will assist student in drawing out outlines of the maps.
Foldscope Bio	XI and XII Bio	For Each student of Bio XI and XII	1 Piece per student		Portable foldable Microscope easy to use and for hands on learning for students.
Atomic Model Kit Chemistry	XI and XII	One Prong Atom	2 Kit per school for classroom demonstration of experiments		For linking the atom by single bond.

Atomic Model Kit	XI and XII	Two Prong Atom Linear Bent	2 Kit per school		For linking the atom to two other atoms by two single bonds at an angle of 180 degree between them with sp hybridisation. For linking the atom to other atoms by two single bonds at an angle of 90 degree.
Atomic Model Kit	XI and XII	Four Prong Atom	2 Kit per school		For linking the atom to two other atoms by two single bonds with 180 degree between them with sp hybridisation. For linking the atom to two other atoms by two single other atoms by two single bonds with an angle of 90 degree.
Atomic Model Kit	XI and XII	Five Prong Atom	2 Kit per school		(a) For linking the carbon atom with sp <sup>3</sup> atom hybridisation to four other atoms to make tetrahedral structure. (b) For linking the atom to three other atoms with tetrahedral angle and one lone pair of electrons (nitrogen). (c) For linking the atom to two other atoms with nearly tetrahedral angle and two lone pair of electrons (oxygen).
Chemistry	XI and XII	Six Prong Atom	1 Section 5 Kit		(a) For linking the atom with sp <sup>3</sup> d <sup>2</sup> or d <sup>2</sup> sp <sup>3</sup> hybridisation to six other atoms with octahedral geometry. (b) For linking the atom to four other atoms with square planar geometry and showing two lobes of orbitals/two lone pairs. (c) For linking the carbon atom with sp hybridisation to two other atoms and to show pi electrons of two pi bonds in a triple bond .

Atomic Model Kit	XI and XII	Orbital Lobes	2 Kit per school		For showing orbitals/lone pairs of electrons
Chemistry	XI and XII	Linkers	1 Section 5 Kit		For showing sigma bonds and ionic bonds between two atoms.
Atomic Model Kit	XI and XII	Sleeve	2 Kit per school		For showing pi bonds between two atoms.
Science Kit	IX	LAB in the Bag	1 Section 5 Kit to be used for doing hands on experiments /peer learning and group activities		<p><b>List of Activities Grade-9</b></p> <ol style="list-style-type: none"> <li>1. Filtration Process</li> <li>2. Law of inertia</li> <li>3. Sublimation Process</li> <li>4. Object may float &amp; Sink and Archimedes Principle</li> <li>5. Balloon Plane - Newton's 3rd Law</li> <li>6. States of matter</li> <li>7. Chromatography</li> <li>8. Tyndall Effect</li> <li>9. Charge Particle in matter</li> <li>10. Transverse / Longitudinal Wave using Slinky</li> <li>11. Tuning forks and Vibration</li> <li>12. Sound is produced by Vibration</li> <li>13. Sound is produced by Vibration</li> </ol> <div data-bbox="1177 1839 1362 1951" style="text-align: right;">  </div> <p style="text-align: right;">To access product List scan this QR code</p>

Science Kit	X	LAB in the Bag	1 Section 5 Kit	 <p>The image shows the cover of a 'Lab in the Bag' kit for Grade-10 students. It features a central illustration of various science experiments. Labels around the illustration include: 'Working of variable resistor', 'Lime water turns into Milky', 'Refraction of light through Glass Slab', 'Effect of Salivary Amylases on Food', 'Electric Motor', 'Combination Reaction', 'Magnetic field lines using Bar magnet', 'Ph. Test &amp; Litmus Test', and 'Burning of magnesium ribbon'. At the top, there is a QR code and a small diagram of a motor. At the bottom, it says 'State Council of Educational Research &amp; Training, Varanasi, Block C, Debraj Colony, New Delhi-110024'.</p>	<p><b>List of Activities Grade-10</b></p> <ol style="list-style-type: none"> <li>1. Electric Motor</li> <li>2. Working of variable resistor</li> <li>3. 3, Lime water turns into Milky</li> <li>4. Image formed by concave &amp; convex mirror</li> <li>5. Image formed by concave &amp; convex lens</li> <li>6. Refraction of light through prism / Dispersion of white light by the glass prism</li> <li>7. Refraction of light through Glass Slab</li> <li>8. Effect of Salivary Amylases on Food</li> <li>9. Ph. Test &amp; Litmus Test</li> <li>10. 10, Burning of magnesium ribbon</li> <li>11. 11. Magnetic field lines using Bar magnet</li> <li>12. 12. Series &amp; Parallel Combination of Resistor</li> <li>13. 13. Displacement and Double Displacement Reaction</li> <li>14. 14. Combination Reaction</li> <li>15. 15. Decomposition and Thermal Decomposition Reaction</li> </ol> <div data-bbox="1197 1041 1388 1176" style="text-align: center;">  </div> <p style="text-align: center;">To access product List scan this QR code</p>
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