



केन्द्रीय माध्यमिक शिक्षा बोर्ड

(शिक्षा मंत्रालय, भारत सरकार के अधीन एक स्वायत्त संगठन)

CENTRAL BOARD OF SECONDARY EDUCATION

(An Autonomous Organisation under the Ministry of Education, Govt. of India)

Annexure I

CBSE 9th Lab – Alternate Hands-on Activity Details

SL	Experiment Name	Hands-on Activity	Activity Video URL	Activity Guide URL	Observation Worksheet URL	Material List URL
1	Preparation of a true solution of common salt, sugar and alum	Sublimation, Filtration and Evaporation	https://youtu.be/BZ7uic1tWI	http://cbseacademic.nic.in/TinkTak_LabManual/011_TCM06TA52ENV27_Sublimation_Filtration and Evaporation AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/012_TCM06CON9ENV27_Sublimation_Filtration and Evaporation AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/013_TCM06TAMTENV27_Sublimation_Filtration and Evaporation AL.pdf
2	Preparation of a suspension of soil, chalk powder and fine sand in water	Mixture - Types	https://youtu.be/hQ5yCcUQhKs	http://cbseacademic.nic.in/TinkTak_LabManual/021_TCM09TA52ENV12_Mixture-Types AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/022_TCM09CON9ENV11_Mixture-Types AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/023_TCM09TAMTENV12_Mixture-Types AL.pdf
3	Preparation of a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of Transparency, Filtration criterion and Stability	DIY Centrifuge	https://youtu.be/voodQoeNsGY	http://cbseacademic.nic.in/TinkTak_LabManual/031_TCM02TA52ENV24_DIY_Centrifuge AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/032_TCM02CON9ENV24_DIY_Centrifuge AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/033_TCM02TAMTENV24_DIY_Centrifuge AL.pdf
4	Preparation of a) mixture and b) compound using iron filings and sulphur powder and distinguishing between these on the basis of (i) appearance, i.e., homogeneity and heterogeneity (ii) behaviour towards a magnet (iii) behaviour towards carbon disulphide as a solvent (iv) effect of heat	Mixture - Iron and Sulphur	https://youtu.be/mMusX5mA99Y	http://cbseacademic.nic.in/TinkTak_LabManual/041_TCC09TA52ENV16_Mixture-Iron and Sulphur AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/042_TCC09CON9ENV14_Mixture-Iron and Sulphur AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/043_TCC09TAMTENV16_Mixture-Iron and Sulphur AL.pdf
5	Perform the following reactions and classify them as physical or chemical changes - Iron with copper sulphate solution in water	Reaction - Single Displacement	https://youtu.be/kmgZpkGEaD8	http://cbseacademic.nic.in/TinkTak_LabManual/051_TCC48TA52ENV14_Reaction-Single Displacement AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/052_TCC48CON9ENV11_Reaction-Single Displacement AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/053_TCC48TAMTENV14_Reaction-Single Displacement AL.pdf
6	Perform the following reactions and classify them as physical or chemical changes - Burning of magnesium ribbon in air	Reaction - Magnesium and Oxygen	https://youtu.be/1V4O2hLoFY	http://cbseacademic.nic.in/TinkTak_LabManual/061_TCC05TA52ENV18_Reaction-Magnesium and Oxygen AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/062_TCC05CON9ENV16_Reaction-Magnesium and Oxygen AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/063_TCC05TAMTENV16_Reaction-Magnesium and Oxygen AL.pdf
7	Perform the following reactions and classify them as physical or chemical changes - Zinc with dilute sulphuric acid	Chemical Change - Metal and Acid	https://youtu.be/9WrgelNhFKY8	http://cbseacademic.nic.in/TinkTak_LabManual/071_TCC33TA52ENV15_Chemical Change-Metal and Acid AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/072_TCC33CON9ENV13_Chemical Change-Metal and Acid AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/073_TCC33TAMTENV15_Chemical Change-Metal and Acid AL.pdf
8	Perform the following reactions and classify them as physical or chemical changes - Heating of copper sulphate crystals	Explore Physical Change	https://youtu.be/yw8v7YFJTSE	http://cbseacademic.nic.in/TinkTak_LabManual/081_TCP38TA52ENV10_Explore Physical Change AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/082_TCP38CON9ENV10_Explore Physical Change AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/083_TCP38TAMTENV10_Explore Physical Change AL.pdf
9	Perform the following reactions and classify them as physical or chemical changes - Sodium sulphate with barium chloride in the form of their solutions in water.	Reaction - Precipitation	https://youtu.be/TeR50i0VNbk	http://cbseacademic.nic.in/TinkTak_LabManual/091_TCC20TA52ENV20_Reaction-Precipitation AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/092_TCC20CON9ENV20_Reaction-Precipitation AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/093_TCC20TAMTENV20_Reaction-Precipitation AL.pdf



‘शिक्षा सदन’, 17 राज़एवेन्यू, इंस्टीटूशनल एरिया, नई दिल्ली -110002

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SL	Experiment Name	Hands-on Activity	Activity Video URL	Activity Guide URL	Observation Worksheet URL	Material List URL
10	To prepare a stained, temporary mount of onion peel and to study its cells.	DIY Microscope	https://youtu.be/T2DVJ4g3NOs	http://cbseacademic.nic.in/TinkTak_LabManual/101_TPL20TA52ENV24_DIY_Microscope_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/102_TPL20CON9ENV23_DIY_Microscope_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/103_TPL20TAMTENV24_DIY_Microscope_AL.pdf
11	To prepare a temporary mount of human cheek epithelial cells, and to study its characteristics.	Microscope - Epithelial Cells	https://youtu.be/dsYW6iWM4iA	http://cbseacademic.nic.in/TinkTak_LabManual/111_TBA19TA52ENV12_Microscope-Epithelial_Cells_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/112_TBA19CON9ENV12_Microscope-Epithelial_Cells_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/113_TBA19TAMTENV11_Microscope-Epithelial_Cells_AL.pdf
12	To study parenchyma and sclerenchyma tissues in plants by preparing temporary slides.	Microscope - Stem	https://youtu.be/bzEFi68emfk	http://cbseacademic.nic.in/TinkTak_LabManual/121_TBP15TA52ENV21_Microscope-Stem_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/122_TBP15CON9ENV20_Microscope-Stem_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/123_TBP15TAMTENV21_Microscope-Stem_AL.pdf
13	To determine the density of a non-porous solid (insoluble and denser than water) by using a spring balance and a measuring cylinder.	Measure - Density (Kitchen Scale)	https://youtu.be/v8n24MlNrc	http://cbseacademic.nic.in/TinkTak_LabManual/131_TCQ02TA52ENV15_Measure-Density_(Kitchen_Scale)_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/132_TCQ02CON9ENV14_Measure-Density_(Kitchen_Scale)_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/133_TCQ02TAMTENV14_Measure-Density_(Kitchen_Scale)_AL.pdf
14	To verify Archimedes' principle.	Archimedes Principle	https://youtu.be/iEVsqbGfx4k	http://cbseacademic.nic.in/TinkTak_LabManual/141_TCP37TA51ENV11_Archimedes_Principle_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/142_TCP37CON9ENV11_Archimedes_Principle_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/143_TCP37TAMTENV11_Archimedes_Principle_AL.pdf
15	To establish the relation between the loss in weight of a solid when fully immersed in (i) tap water; (ii) strongly salty water, with the weight of water displaced by it by taking at least two different solids.	Density - Saline Water	https://youtu.be/ID5k1wckmAM	http://cbseacademic.nic.in/TinkTak_LabManual/151_TCP28TA52ENV16_Density-Saline_Water_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/152_TCP28CON9ENV16_Density-Saline_Water_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/153_TCP28TAMTENV16_Density-Saline_Water_AL.pdf
16	To verify the law of conservation of mass in a chemical reaction.	Matter - Mass Conservation	https://youtu.be/ctqtVsc9u3Y	http://cbseacademic.nic.in/TinkTak_LabManual/161_TCC37TA52ENV21_Matter-Mass_Conervation_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/162_TCC37CON9ENV20_Matter-Mass_Conervation_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/163_TCC37TAMTENV21_Matter-Mass_Conervation_AL.pdf

CBSE 10th Lab – Alternate Hands-on Activity Details

SL	Experiment Name	Hands-on Activity	Activity Video URL	Activity Guide URL	Observation Worksheet URL	Material List URL
1	Finding the pH of the following samples by using pH paper/universal indicator: (i) Dilute Hydrochloric Acid (ii) Dilute NaOH solution (iii) Dilute Ethanoic Acid solution (iv) Lemon juice (v) Water (vi) Dilute Hydrogen Carbonate solution	DIY Acid-Base Paper Indicator	https://youtu.be/Rjds5vuUrw	http://cbseacademic.nic.in/TinkTak_LabManual/171_TCP03TA52ENV15_DIY_Acid-Base_Paper_Indicator_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/172_TCP03CONXENV14_DIY_Acid-Base_Paper_Indicator_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/173_TCP03TAMTENV14_DIY_Acid-Base_Paper_Indicator_AL.pdf
2	Finding the pH of the following samples by using pH paper/universal indicator: (i) Dilute Hydrochloric Acid (ii) Dilute NaOH solution (iii) Dilute Ethanoic Acid solution	Acids-Bases - Turmeric Indicator	https://youtu.be/smOuAQ0CIYQ	http://cbseacademic.nic.in/TinkTak_LabManual/181_TCC25TA52ENV24_Acids-Bases-Turmeric_Indicator_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/182_TCC25CONXENV23_Acids-Bases-Turmeric_Indicator_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/183_TCC25TAMTENV23_Acids-Bases-Turmeric_Indicator_AL.pdf



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फ़ोन/Telephone: 011-23234324, 23211575 वेबसाइट/ Website: www.cbseacademic.nic.in ई-मेल-e-mail: directoracad.cbse@nic.in



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SL	Experiment Name	Hands-on Activity	Activity Video URL	Activity Guide URL	Observation Worksheet URL	Material List URL
	(iv) Lemon juice (v) Water (vi) Dilute Hydrogen Carbonate solution					
3	Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with Zinc metal	Reaction - Acid and Metal	https://youtu.be/5o1ueY1x5hM	http://cbseacademic.nic.in/TinkTak_LabManual/191_TCC18TA52ENV28_Reaction-Acid and Metal AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/192_TCC18CONXENV28_Reaction-Acid and Metal AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/193_TCC18TAMTENV28_Reaction-Acid and Metal AL.pdf
4	Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with Zinc metal	Reaction - Base and Metal	https://youtu.be/odwuPLqk-To	http://cbseacademic.nic.in/TinkTak_LabManual/201_TCC49TA52ENV15_Reaction-Base and Metal AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/202_TCC49CONXENV15_Reaction-Base and Metal AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/203_TCC49TAMTENV15_Reaction-Base and Metal AL.pdf
5	Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with Solid sodium carbonate	Reaction - Acids and Bases	https://youtu.be/SkQE-RAuHh8	http://cbseacademic.nic.in/TinkTak_LabManual/211_TCC01TA52ENV25_Reaction-Acids and Bases AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/212_TCC01CONXENV24_Reaction-Acids and Bases AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/213_TCC01TAMTENV24_Reaction-Acids and Bases AL.pdf
6	Performing and observing the following reaction - Combination reaction	Reaction - Magnesium and Oxygen	https://youtu.be/KysR0E6MRH8	http://cbseacademic.nic.in/TinkTak_LabManual/221_TCC05TA52ENV18_Reaction-Magnesium and Oxygen AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/222_TCC05CONXENV16_Reaction-Magnesium and Oxygen AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/223_TCC05TAMTENV16_Reaction-Magnesium and Oxygen AL.pdf
7	Performing and observing the following reaction - Decomposition	DIY Electrolysis	https://youtu.be/0Cv5f8otqlA	http://cbseacademic.nic.in/TinkTak_LabManual/231_TCC19TA52ENV27_DIY_Electrolysis AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/232_TCC19CONXENV27_DIY_Electrolysis AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/233_TCC19TAMTENV27_DIY_Electrolysis AL.pdf
8	Performing and observing the following reaction - Displacement reaction	Reaction - Single Displacement	https://youtu.be/WqiKm4QDcsA	http://cbseacademic.nic.in/TinkTak_LabManual/241_TCC48TA52ENV14_Reaction-Single Displacement AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/242_TCC48CONXENV14_Reaction-Single Displacement AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/243_TCC48TAMTENV14_Reaction-Single Displacement AL.pdf
9	Performing and observing the following reaction - Double displacement	Reaction - Double Displacement	https://youtu.be/9eQKlnhWOMs	http://cbseacademic.nic.in/TinkTak_LabManual/251_TCC47TA52ENV12_Reaction-Double Displacement AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/252_TCC47CONXENV12_Reaction-Double Displacement AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/253_TCC47TAMTENV12_Reaction-Double Displacement AL.pdf
10	Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions: (i) ZnSO ₄ (aq) (ii) FeSO ₄ (aq) (iii) CuSO ₄ (aq) (iv) Al ₂ (SO ₄) ₃ (aq) Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result	Reaction - Metal Reactivity Series	https://youtu.be/XxxU3TQ9GYw	http://cbseacademic.nic.in/TinkTak_LabManual/261_TCC21TA52ENV28_Reaction-Metal Reactivity Series A L.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/262_TCC21CONXENV28_Reaction-Metal Reactivity Series A L.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/263_TCC21TAMTENV28_Reaction-Metal Reactivity Series A L.pdf
11	Experimentally show that carbon dioxide is given out during respiration.	DIY Respirometer (Turmeric)	https://youtu.be/VwW0Pu313AM	http://cbseacademic.nic.in/TinkTak_LabManual/271_TBA36TA52ENV15_DIY_Respirometer (Turmeric) AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/272_TBA36CONXENV14_DIY_Respirometer (Turmeric) AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/273_TBA36TAMTENV14_DIY_Respirometer (Turmeric) AL.pdf
12	Determination of the focal length of (i) Concave mirror	Explore Curved Mirrors	https://youtu.be/fyfo3VLhe8A	http://cbseacademic.nic.in/TinkTak_LabManual/281_TPL19TA52ENV12_Explore Curved Mirrors AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/282_TPL19CONXENV12_Explore Curved Mirrors AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/283_TPL19TAMTENV12_Explore Curved Mirrors AL.pdf
13	Determination of the focal length of (ii) Convex lens by obtaining the image of a distant object.	DIY Optic Bench (Fresnel Lens)	https://youtu.be/fHmYYz-TC-8	http://cbseacademic.nic.in/TinkTak_LabManual/291_TPL18TA52ENV21_DIY_Optic Bench (Fresnel Lens) AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/292_TPL18CONXENV21_DIY_Optic Bench (Fresnel Lens) AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/293_TPL18TAMTENV21_DIY_Optic Bench (Fresnel Lens) AL.pdf

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फ़ोन/Telephone: 011-23234324, 23211575 वेबसाइट/ Website: www.cbseacademic.nic.in ई-मेल-e-mail: directoracad.cbse@nic.in





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SL	Experiment Name	Hands-on Activity	Activity Video URL	Activity Guide URL	Observation Worksheet URL	Material List URL
14	To trace the path of a ray of light passing obliquely through a rectangular glass slab for different angles of incidence and to measure the angle of incidence, angle of refraction, the angle of emergence and interpret the results.	Snell's Law	https://youtu.be/v829V_alDCU	http://cbseacademic.nic.in/TinkTak_LabManual/301_TPL28TA52ENV12_Snell's Law_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/302_TPL28CONXENV11_Snell's Law_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/303_TPL28TAMTENV11_Snell's Law_AL.pdf
15	To trace the path of a ray of light through a glass prism	Light - Deviation and Dispersion	https://youtu.be/3ICF4zk-k-w	http://cbseacademic.nic.in/TinkTak_LabManual/311_TPL27TA52ENV12_Light-Deviation and Dispersion_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/312_TPL27CONXENV12_Light-Deviation and Dispersion_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/313_TPL27TAMTENV12_Light-Deviation and Dispersion_AL.pdf
16	Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determining its resistance. Also plotting a graph between V and I.	Circuit - Resistance	https://youtu.be/snn-dOE5u6A	http://cbseacademic.nic.in/TinkTak_LabManual/321_TPM20TA52ENV14_Circuit-Resistance_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/322_TPM20CONXENV13_Circuit-Resistance_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/323_TPM20TAMTENV14_Circuit-Resistance_AL.pdf
17	Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides.	Microscope - Asexual Reproduction	https://youtu.be/IGPdOLCnYOg	http://cbseacademic.nic.in/TinkTak_LabManual/331_TBA28TA52ENV11_Microscope-Asexual Reproduction_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/332_TBA28CONXENV11_Microscope-Asexual Reproduction_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/333_TBA28TAMTENV11_Microscope-Asexual Reproduction_AL.pdf

Annexure II

CBSE 9th - Additional Hands-on Activity Details

SL	Experiment Name	Hands-on Activity	Activity Video URL	Activity Guide URL	Observation Worksheet URL	Material List URL
1	To show that gases are readily compressible and liquids are not.	Matter - Compressibility	https://youtu.be/1tdQbeYfysl	http://cbseacademic.nic.in/TinkTak_LabManual/341_TCP11TA52ENV19_Matter-Compressibility_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/342_TCP11CON9ENV19_Matter-Compressibility_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/343_TCP11TAMTENV19_Matter-Compressibility_AL.pdf
2	To study the process of evaporation.	Matter - Evaporative Cooling	https://youtu.be/TRITrywcPwq	http://cbseacademic.nic.in/TinkTak_LabManual/351_TCP06TA52ENV27_Matter-Evaporative Cooling_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/352_TCP06CON9ENV27_Matter-Evaporative Cooling_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/353_TCP06TAMTENV26_Matter-Evaporative Cooling_AL.pdf
3	To prepare a saturated solution of common salt in distilled water and to determine its solubility at room temperature. To prepare a solution of common salt of 10% composition by mass	Matter - Solubility	https://youtu.be/qlx54jCk84g	http://cbseacademic.nic.in/TinkTak_LabManual/361_TCP22TA52ENV29_Matter-Solubility_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/362_TCP22CON9ENV29_Matter-Solubility_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/363_TCP22TAMTENV29_Matter-Solubility_AL.pdf
4	To study the process of separation of a mixture of two immiscible liquids.	Separating Funnel Model	https://youtu.be/9g22bFKAG5U	http://cbseacademic.nic.in/TinkTak_LabManual/371_TCM12TA52ENV14_Separating Funnel Model_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/372_TCM12CON9ENV14_Separating Funnel Model_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/373_TCM12TAMTENV14_Separating Funnel Model_AL.pdf
5	To separate a mixture of two miscible liquids by simple distillation.	DIY Distillation (Test Tube)	https://youtu.be/h0pcaucur8	http://cbseacademic.nic.in/TinkTak_LabManual/381_TCP35TA52ENV11_DIY_Distillation (Test Tube)_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/382_TCP35CON9ENV11_DIY_Distillation (Test Tube)_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/383_TCP35TAMTENV11_DIY_Distillation (Test Tube)_AL.pdf



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(शिक्षा मंत्रालय, भारत सरकार के अधीन एक स्वायत्त संगठन)

CENTRAL BOARD OF SECONDARY EDUCATION

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SL	Experiment Name	Hands-on Activity	Activity Video URL	Activity Guide URL	Observation Worksheet URL	Material List URL
6	To study the phenomenon of osmosis.	Explore Osmosis	https://youtu.be/et2xEV7K-50	http://cbseacademic.nic.in/TinkTak_LabManual/391_TCP17TA52ENV13_Explore_Osmosis_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/392_TCP17CON9ENV12_Explore_Osmosis_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/393_TCP17TAMTENV12_Explore_Osmosis_AL.pdf
7	To study plasmolysis in leaf epidermal peels of Rhoeo or Tradescantia.	Explore Plasmolysis	https://youtu.be/rQGIE4bVcn8	http://cbseacademic.nic.in/TinkTak_LabManual/401_TBO06TA52ENV10_Explore_Plasmolysis_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/402_TBO06CON9ENV11_Explore_Plasmolysis_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/403_TBO06TAMTENV11_Explore_Plasmolysis_AL.pdf
8	To test the presence of starch in a given food sample and metanil yellow in pigeon pea.	Food Test - Milk Adulteration	https://youtu.be/NGzfUgf6WDw	http://cbseacademic.nic.in/TinkTak_LabManual/411_TCC13TA52ENV15_Food_Test-Milk_Adulteration_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/412_TCC13CON9ENV14_Food_Test-Milk_Adulteration_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/413_TCC13TAMTENV14_Food_Test-Milk_Adulteration_AL.pdf
9	To identify and study striated muscle fibre and nerve fibre in animals.	Microscope - Animal Tissue	https://youtu.be/iQDPCCAJN7I	http://cbseacademic.nic.in/TinkTak_LabManual/421_TBA27TA52ENV11_Microscope-Animal_Tissue_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/422_TBA27CON9ENV10_Microscope-Animal_Tissue_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/423_TBA27TAMTENV10_Microscope-Animal_Tissue_AL.pdf
10	To study the characteristics of Spirogyra, Agaricus, moss, fern, Pinus and an angiosperm plant.	Microscope - Fungi (Mushroom)	https://youtu.be/m6raB943kDM	http://cbseacademic.nic.in/TinkTak_LabManual/431_TBM05TA52ENV15_Microscope-Fungi_(Mushroom)_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/432_TBM05CON9ENV15_Microscope-Fungi_(Mushroom)_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/433_TBM05TAMTENV15_Microscope-Fungi_(Mushroom)_AL.pdf
11	To prepare herbarium sheet of a flowering plant.	DIY Herbarium Sheet	https://youtu.be/wcXrjrb4gU	http://cbseacademic.nic.in/TinkTak_LabManual/441_TBP32TA52ENV11_DIY_Herbarium_Sheet_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/442_TBP32CON9ENV10_DIY_Herbarium_Sheet_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/443_TBP32TAMTENV10_DIY_Herbarium_Sheet_AL.pdf
12	To compare the external features of monocot and dicot plants.	Microscope - Leaf Venation	https://youtu.be/UvYTKVbaWA	http://cbseacademic.nic.in/TinkTak_LabManual/451_TBP12TA52ENV26_Microscope-Leaf_Venation_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/452_TBP12CON9ENV26_Microscope-Leaf_Venation_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/453_TBP12TAMTENV26_Microscope-Leaf_Venation_AL.pdf
13	To compare the external features of monocot and dicot plants.	Plant Life - Germination	https://youtu.be/5y8XXf25GEs	http://cbseacademic.nic.in/TinkTak_LabManual/461_TBP16TA52ENV24_Plant_Life-Germination_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/462_TBP16CON9ENV23_Plant_Life-Germination_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/463_TBP16TAMTENV23_Plant_Life-Germination_AL.pdf
14	To study the life cycle of malarial parasite.	Flexagon - Plasmodium Life Cycle	https://youtu.be/c5EelD-LPBU	http://cbseacademic.nic.in/TinkTak_LabManual/471_TBE09TA52ENV10_Flexagon-Plasmodium_Life_Cycle_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/472_TBE09CON9ENV10_Flexagon-Plasmodium_Life_Cycle_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/473_TBE09TAMTENV10_Flexagon-Plasmodium_Life_Cycle_AL.pdf
15	To study the third law of motion using two spring balances.	DIY Spring Balance	https://youtu.be/sF-dQoZYAK8	http://cbseacademic.nic.in/TinkTak_LabManual/481_TPF34TA52ENV22_DIY_Spring_Balance_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/482_TPF34CON9ENV21_DIY_Spring_Balance_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/483_TPF34TAMTENV21_DIY_Spring_Balance_AL.pdf
16	To study the variation in limiting friction with mass and the nature of surfaces in contact.	Trolley Model	https://youtu.be/t9NumOhVJic	http://cbseacademic.nic.in/TinkTak_LabManual/491_TPF31TA52ENV25_Trolley_Model_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/492_TPF31CON9ENV24_Trolley_Model_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/493_TPF31TAMTENV24_Trolley_Model_AL.pdf
17	(i) To study the effect of amplitude on the time period of a simple pendulum. (ii) To study the variation in time period of a simple pendulum with its length. (iii) To study the effect of mass on the time period of a simple pendulum.	Motion - Periodic	https://youtu.be/bFgulg5zJ5U	http://cbseacademic.nic.in/TinkTak_LabManual/501_TPT14TA52ENV11_Motion-Periodic_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/502_TPT14CON9ENV11_Motion-Periodic_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/503_TPT14TAMTENV11_Motion-Periodic_AL.pdf
18	To determine the speed of a transverse pulse propagated through a stretched string.	Transverse Wave Model	https://youtu.be/p8M05J5ivv0	http://cbseacademic.nic.in/TinkTak_LabManual/511_TPS20TA52ENV11_Transverse_Wave_Model_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/512_TPS20CON9ENV11_Transverse_Wave_Model_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/513_TPS20TAMTENV11_Transverse_Wave_Model_AL.pdf
19	To determine the speed of a longitudinal pulse	Longitudinal Wave Model	https://youtu.be/DKIALxcTZYg	http://cbseacademic.nic.in/TinkTak_LabManual/521_TPS21TA52ENV10_Longitudinal_Wave_Model_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/522_TPS21CON9ENV10_Longitudinal_Wave_Model_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/523_TPS21TAMTENV10_Longitudinal_Wave_Model_AL.pdf

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फ़ोन/Telephone: 011-23234324, 23211575 वेबसाइट/ Website: www.cbseacademic.nic.in ई-मेल-e-mail: directoracad.cbse@nic.in



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SL	Experiment Name	Hands-on Activity	Activity Video URL	Activity Guide URL	Observation Worksheet URL	Material List URL
	propagated through a stretched slinky.			inal Wave Model AL.pdf	dinal Wave Model AL.pdf	dinal Wave Model AL.pdf
20	To study the reflection of sound.	DIY Stethoscope	https://youtu.be/v3B4j9iXJkM	http://cbseacademic.nic.in/TinkTak_LabManual/531_TBA05TA52ENV27_DIY_Stethoscope_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/532_TBA05CON9ENV26_DIY_Stethoscope_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/533_TBA05TAMTENV26_DIY_Stethoscope_AL.pdf

CBSE 10th - Additional Hands-on Activity Details

SL	Experiment Name	Hands-on Activity	Activity Video URL	Activity Guide URL	Observation Worksheet URL	Material List URL
1	To measure the change in temperature during chemical reactions and to conclude whether the reaction is exothermic or endothermic.	Reaction - Exothermic and Endothermic	https://youtu.be/in3WspwAL9Q	http://cbseacademic.nic.in/TinkTak_LabManual/541_TCC41TA52ENV12_Reaction-Exothermic and Endothermic_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/542_TCC41CONXENV12_Reaction-Exothermic and Endothermic_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/543_TCC41TAMTENV12_Reaction-Exothermic and Endothermic_AL.pdf
2	To show that acids, bases, and salts are electrolytes.	Acids-Bases - Conductivity	https://youtu.be/2X3JWn1n0	http://cbseacademic.nic.in/TinkTak_LabManual/551_TCC02TA52ENV27_Acids-Bases-Conductivity_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/552_TCC02CONXENV27_Acids-Bases-Conductivity_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/553_TCC02TAMTENV27_Acids-Bases-Conductivity_AL.pdf
3	To identify bleaching powder among given samples of chemicals.	Explore Bleaching Powder	https://youtu.be/SGctEJkzsDc	http://cbseacademic.nic.in/TinkTak_LabManual/561_TCC39TA52ENV13_Explore Bleaching Powder_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/562_TCC39CONXENV12_Explore Bleaching Powder_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/563_TCC39TAMTENV12_Explore Bleaching Powder_AL.pdf
4	To identify washing soda or baking soda among given samples of chemicals.	Explore Washing Soda	https://youtu.be/aeZzFnbV7ml	http://cbseacademic.nic.in/TinkTak_LabManual/571_TCC40TA52ENV13_Explore Washing Soda_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/572_TCC40CONXENV13_Explore Washing Soda_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/573_TCC40TAMTENV13_Explore Washing Soda_AL.pdf
5	To show that crystals of copper sulphate contain water of crystallisation	DIY Copper Sulphate Crystals	https://youtu.be/VY4xf8rZ08	http://cbseacademic.nic.in/TinkTak_LabManual/581_TCCP08TA52ENV26_DIY_Copper Sulphate Crystals_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/582_TCCP08CONXENV25_DIY_Copper Sulphate Crystals_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/583_TCCP08TAMTENV25_DIY_Copper Sulphate Crystals_AL.pdf
6	To study physical and chemical properties of acetic acid (ethanoic acid).	Explore Ethanoic Acid	https://youtu.be/kzF1wibqPs0	http://cbseacademic.nic.in/TinkTak_LabManual/591_TCC50TA52ENV10_Explore Ethanoic Acid_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/592_TCC50CONXENV11_Explore Ethanoic Acid_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/593_TCC50TAMTENV11_Explore Ethanoic Acid_AL.pdf
7	To study some oxidation reactions of alcohol	Reaction - Alcohol Oxidation	https://youtu.be/DI50mh9yU0	http://cbseacademic.nic.in/TinkTak_LabManual/601_TCC51TA52ENV11_Reaction-Alcohol Oxidation_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/602_TCC51CONXENV10_Reaction-Alcohol Oxidation_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/603_TCC51TAMTENV10_Reaction-Alcohol Oxidation_AL.pdf
8	To study saponification reaction for preparation of soap	DIY Handmade Soap	https://youtu.be/FT9SRiUoVXM	http://cbseacademic.nic.in/TinkTak_LabManual/611_TCC23TA52ENV16_DIY_Handmade Soap_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/612_TCC23CONXENV16_DIY_Handmade Soap_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/613_TCC23TAMTENV16_DIY_Handmade Soap_AL.pdf
9	To compare the foaming capacity of different samples of soap. To study the comparative cleansing capacity of a sample of soap in soft and hard water.	Explore Soap	https://youtu.be/q3P7UYj-uuU	http://cbseacademic.nic.in/TinkTak_LabManual/621_TCC44TA52ENV17_Explore Soap_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/622_TCC44CONXENV20_Explore Soap_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/623_TCC44TAMTENV20_Explore Soap_AL.pdf
10	To prepare temporary mounts of leaf peels to observe stomata and to differentiate between dicot and monocot stomata.	Microscope - Stomata	https://youtu.be/BmX_x3nIK4s	http://cbseacademic.nic.in/TinkTak_LabManual/631_TBP24TA52ENV11_Microscope-Stomata_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/632_TBP24CONXENV11_Microscope-Stomata_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/633_TBP24TAMTENV11_Microscope-Stomata_AL.pdf
11	To show that light is essential for photosynthesis.	Plant Life - Photosynthesis	https://youtu.be/WQhT-S-rto	http://cbseacademic.nic.in/TinkTak_LabManual/641_TBP25TA52ENV15_Plant_Life-Photosynthesis_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/642_TBP25CONXENV15_Plant_Life-Photosynthesis_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/643_TBP25TAMTENV15_Plant_Life-Photosynthesis_AL.pdf

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SL	Experiment Name	Hands-on Activity	Activity Video URL	Activity Guide URL	Observation Worksheet URL	Material List URL
12	To show that carbon dioxide is essential for photosynthesis.	Plant Life - Photosynthesis (CO ₂)	https://youtu.be/y-u6qrKKI7Y	http://cbseacademic.nic.in/TinkTak_LabManual/651_TBP35TA52ENV12_Plant_Life-Photosynthesis_CO2_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/652_TBP35CONXENV12_Plant_Life-Photosynthesis_CO2_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/653_TBP35TAMTENV12_Plant_Life-Photosynthesis_CO2_AL.pdf
13	To study the liberation of carbon dioxide gas during aerobic respiration.	Reaction - Acids and Bases (Plastic Bag)	https://youtu.be/IVUW95d1Eel	http://cbseacademic.nic.in/TinkTak_LabManual/661_TCC17TA52ENV14_Reaction-Acids_Bases_Plastic_Bag_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/662_TCC17CONXENV12_Reaction-Acids_and_Bases_Plastic_Bag_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/663_TCC17TAMTENV12_Reaction-Acids_and_Bases_Plastic_Bag_AL.pdf
14	To study the liberation of carbon dioxide gas during fermentation.	Respiration - Anaerobic	https://youtu.be/i8rl1w3Osjq	http://cbseacademic.nic.in/TinkTak_LabManual/671_TBM02TA52ENV24_Respiration-Anaerobic_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/672_TBM02CONXENV24_Respiration-Anaerobic_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/673_TBM02TAMTENV24_Respiration-Anaerobic_AL.pdf
15	To study the action of salivary amylase on starch solution.	Digestion - Starch (Amylase)	https://youtu.be/8qnXCj7gtKE	http://cbseacademic.nic.in/TinkTak_LabManual/681_TCC16TA52ENV28_Digestion-Starch_Amylase_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/682_TCC16CONXENV27_Digestion-Starch_Amylase_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/683_TCC16TAMTENV27_Digestion-Starch_Amylase_AL.pdf
16	To study the phenomenon of phototropism and geotropism in plants	Plant Life - Tropism	https://youtu.be/j-Z2wYAwOXA	http://cbseacademic.nic.in/TinkTak_LabManual/691_TBP18TA52ENV11_Plant_Life-Tropism_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/692_TBP18CONXENV11_Plant_Life-Tropism_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/693_TBP18TAMTENV11_Plant_Life-Tropism_AL.pdf
17	To study binary fission in Amoeba or Paramoecium and budding in yeast or Hydra.	Plant Life - Vegetative Propagation	https://youtu.be/qZt5LSGRnlw	http://cbseacademic.nic.in/TinkTak_LabManual/701_TBP19TA52ENV12_Plant_Life-Vegetative_Propagation_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/702_TBP19CONXENV12_Plant_Life-Vegetative_Propagation_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/703_TBP19TAMTENV12_Plant_Life-Vegetative_Propagation_AL.pdf
18	To verify the laws of reflection of light using a plane mirror.	Law of Reflection (Mobile Phone)	https://youtu.be/cHABkxAW1sc	http://cbseacademic.nic.in/TinkTak_LabManual/711_TPL26TA52ENV13_Law_of_Reflection_Mobile_Phone_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/712_TPL26CONXENV12_Law_of_Reflection_Mobile_Phone_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/713_TPL26TAMTENV12_Law_of_Reflection_Mobile_Phone_AL.pdf
19	To draw magnetic field lines of a bar magnet. To draw the magnetic field lines of a current-carrying straight wire.	Magnetism - Field Lines	https://youtu.be/j6A7USdbJWw	http://cbseacademic.nic.in/TinkTak_LabManual/721_TPM07TA52ENV13_Magnetism-Field_Lines_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/722_TPM07CONXENV13_Magnetism-Field_Lines_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/723_TPM07TAMTENV13_Magnetism-Field_Lines_AL.pdf
20	To study the magnetic field of an electromagnet.	DIY Electromagnet	https://youtu.be/iachsDUumfk	http://cbseacademic.nic.in/TinkTak_LabManual/731_TPM03TA52ENV17_DIY_Electromagnet_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/732_TPM03CONXENV16_DIY_Electromagnet_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/733_TPM03TAMTENV16_DIY_Electromagnet_AL.pdf
21	To study the force on a current-carrying straight conductor in a magnetic field and to verify that the motion of the conductor is according to Fleming's left-hand rule.	Fleming's Left Hand Rule	https://youtu.be/wdH0J-byFE8	http://cbseacademic.nic.in/TinkTak_LabManual/741_TPM24TA52ENV11_Fleming's_Left_Hand_Rule_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/742_TPM24CONXENV11_Fleming's_Left_Hand_Rule_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/743_TPM24TAMTENV11_Fleming's_Left_Hand_Rule_AL.pdf
22	To study the phenomenon of electromagnetic induction	Faraday's Law	https://youtu.be/klvlg_qwMM	http://cbseacademic.nic.in/TinkTak_LabManual/751_TPM25TA52ENV10_Faraday's_Law_AL.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/752_TPM25CONXENV10_Faraday's_Law_AD.pdf	http://cbseacademic.nic.in/TinkTak_LabManual/753_TPM25TAMTENV10_Faraday's_Law_AL.pdf