

## Secondary Science Lab kit Physics



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**Product Page:**

<https://www.labappara.com/product/secondary-science-lab-kit-physics/>

### Product Description

Secondary Science Lab kit Physics:

National Council of Educational Research & Training (NCERT), New Delhi, an autonomous organization under Ministry of Human Resource Development (MHRD), Government of India (GOI), has empanelled SCIENTIFIC INSTRUMENT TRADERS for manufacturing and supplying of Educational School kits developed by NCERT. We are manufacturing and supplying superior quality Science Kits. Manufactured using premium quality raw material that assure its robust construction, corrosion & break resistance and longer service life, our offered products are highly appreciated all across the nation.

S.No

Item Name

Specification

Quantity

1

## Kit Manual

Kit manuals may be purchased from sales counter of Publication Division, NCERT, New Delhi. The price of this manual is ranging from Rs. 100 to 300/-

1

2

## Kit box with carton

1. 12 mm thick wooden ply outer box size 670mmX330mmx160 height. Flap open top to back side attach with piano hinged inside of the box. Locking system and chest handle in both sides rod dia 5mm x 20mm both side bend right angle L shape having length 370mm to fix with flap and box paint in teak colour.
2. 12 mm thick wooden ply outer box size 670mm X 330mm X 250mm height. Flap open top to back side attach with piano hinged inside of the box. Locking system and chest handle in both sides and box paint in teak colour.

1 each

3

## Vernier Caliper

- (1) Standard item Medium size main scale 0-15 cm in steel body. Least count 0.1mm.

(wheel type)

(2) Standard item Medium size main scale 0-15 cm in steel body. Least count 0.05mm (wheel type)

Both packed in single plastic box.

01 each

4

Screw Gauge

Standard item good quality in the two sizes. One is 15 x 1/100mm. Another size 15 x 1/200mm.

Both screw gauge packed in single plastic box.

01 each

5

Spherometer

Standard item good quality with 100 divisions on circular scale.

01

6

Beam Balance

M.S. axel 180mm height and fitted graduated beam scale (28x200mm) with pointed screw and both side hanging aluminium pan of size 45x45mm and height 80mm .

01

7

### Laboratory Stand Assembly

- 1) M.S. rod
- 2) Boss head- (2each)
- 3)G clamp 4)Clamp-(2 types)
- 5) Base plate

MS rod dia. 9.5/10 mm x 575/590 mm long, with base plate size 130mm x 200mm plate thickness 2 / 3 mm and CI Boss head two pieces as per standard with two clamp of different shapes.

02 each

8

### Measuring Cylinder

Plastic transparent with inbuilt base,100 mL,graduation 1 mL

01

9

### Stopwatch with Split timeout

Digital stopwatch standard with least count  
0.01 second. As per sample.

02

10

### Inclined Plane

Two wooden plane 380mm x 100mm x 12mm attached hinged together with pulley. Top surface smooth with sunmica another plane rough surface of same size as top attached with angle protector and labeling screw on base.

01

11

### Steel Roller

Diameter 20 mm and 75mm length roll with wire hook

01

12

### Aluminium Roller

Diameter 20 mm and 75mm length roll with wire hook

01

13

### Helical Spring

Spring wire dia 15mm, length 35mm attached with hook and pointer.

02

14

50g slotted weight with hook

One 50g disc attached with dia 3mm x 90mm hook and of four 50g weight fitted with slots one by one total weight will be 250g.

02 set

15

500 g Slotted weight with hook

One 500g disc attached with dia 5mm x 200mm. hook and four 500g weight fitted with slots one by one total weight will be 2.5 kg.

01 Set

16

Solid Wooden/ Plastic Block for holding beam  
balance and

100mm x 100mmx 60mm. wooden block in the one side cut a slot for attachment of beam balance with a hole and back side hole for syringe with support counter for

01

syringe

syringe 5mm depth. As per sample.

17

Pulley (S Type)

Iron pulley 'S' size 80mm x 35mm. one side fitted pulley dia 38mm with 'V' shape groove and another side bolt fitted.

02

18

Steel Balls

Steel ball bearing dia. 1mm, 2mm, 3mm, 4mm. Packed in different four vials with size stickers.

20 each

19

Wooden block with hook

(50x50mmx100mm ) with hook and different surface smoothness.

1

20

Capillary Tube

Standard size Soda glass

01 Box

21

## Bob with hook

(i) One Steel ball and one brass ball of dia. 20mm attached with hook for pendulum (both must be of same size). One Steel ball and one brass ball of dia. 25mm attached with hook for pendulum (both must be of same size).

01each

22

## Plane mirror strips with scale

300mm x 45mm x 2mm. mirror strip pasted on wooden strip of same size (of thickness 10 mm ) with graduation 0 to 240mm for holding, there should be two rings and screws fitted on back side of wooden strip. As per sample.

01

23

## Watch Glass

Dia. 50mm.

02

24

## Spring balance 250g

A.B.S, open type, capacity 250 g wt graduation in steps of 10 g wt on one side and Newton's on the other side

02

25

## Physical Weight Box

In the weight box 1mg. to 100g iron weight with forceps.



01

26

Wires

(1) Brass

(2) Steelwire

(3) Nichrome

24 SWG. wire 3m length approx.

One each

27

Wooden Wedge

Wooden Wedge 25mm. in three sides x 100mm length and one side top to be fixed steel round edge.

02

28

Set of Tuning fork

256Hz, 288Hz, 320Hz, 384Hz, 480Hz, 512HZ,  
packed in a plastic box.

One each

29

## Plastic Beaker (100mL & 250mL)

Plastic 100 mL and 250mL beaker with marking 0 to 100 mL and 250mL.

01 each

30

## Funnel

40mm dia. Plastic Funnel of tube size inner dia 4.5mm, length in

01set

31

## Laboratory thermometer

Mercury glass thermometer Range -10° C to 110° C with least count of 0.5° C and packed in plastic/card board case.

02

32

Copper calorimeter with copper stirrer

Double wall copper beaker outer dia. 75mm inner dia. 48mm height 85mm another small copper beaker of dia 45mm height 64mm and one brass pipe dia 10mm height 10mm welded with top base of double wall beaker. Plastic cover of dia 75mm with 3 holes (one for inserting stirrer and another two cork fitted holes for inserting the laboratory thermometer)

01

33

Resonance Tube with attachment

Tube inner dia. 25 mm outer dia. 30mm and 600 mm length. Provision for a plastic

01

pipe (of 1 metre length and 8mm dia) fitted with cork and plastic reservoir 500ml.  
tube should be graduated scale marking on pipe 0-60cm.

34

Tripod stand

Height 100mm cast iron top 7x7x7cm triangle, legs dia 4mm iron body.

01 No.

35

Spirit Lamp

Steel body along with brass wick holder dia 65mm, height 50mm

01 Nos.

36

Syringe (60mL) with Wooden/ Plastic top

60 mL Doctor's clinical syringe. Standard item syringe nozzle blocked with PVC

pipe. Wooden/plastic top of dia 75mm, thickness 6mm having both side counters (one side for weight supporting and another side to fit with syringe pump).  
mm graduation marking from top to bottom

01

37

Plastic Box

Polypropylene transparent milky white box, overall size 170x120x70mm height with cover.

02

38

Spirit level

Aluminium body square 16mmx150mm length

01

39

Plane Glass plate

6cmx6cmx2mm

01

40

Cotton thread

1mm dia. Length 25m (approx) small roll

01 roll

41

Split Rubber Cork

12 no. & 7 no.

01 each

42

Rubber Pad

70mm×50mm×8mm (As per sample)

02

43

Mirror Strip

100mm×40mm×2mm one plastic piece 25x25x15mm for holding the mirror strip

01 each

44

Pan

75mm dia, 10mm height with a provision for hanging.

02

45

100g slotted weight with hook

One 100g disc total weight 500g

One set

46

20g slotted weight with hook

One 20g disc attached with dia 3mm×90mm with hook and four 20g weight fitted with slots one by one with a total weight of 100g

01 set

47

Grease 10g

Grease packed in plastic vial

01

48

Assorted rubber band

One packet

01

49

Wire gauge

100mm X100mm with frame

02 Nos.

50

Boiling Tube fitted with glass tube in a rubber cork

Borosilicate Glass 25 mm x 150 mm rim type fitted with glass tube and rubber cork.

Glass tube of dia 5mm and inner dia 2mm/2.5mm and length 150mm.

02 Nos.

51

Bimetallic strip

Frame – MS Rod, 6 mm dia. with MS and brass strips joined,

01 No.

52

Pinch clip

01

53

Sonometer

A box of 3mm plywood of size 635mmx110mmx105mm open at the bottom. Two circular holes of 30mm dia. meter along with graduated scale in front. At the top arrangement for fixing pulley and fly nut and screw

01

54

Battery eliminator

0-10V (with minimum provision of 0,1,2,3 upto 10V) with marking AC and DC output. Maximum current 500mA. Box size 160x90x90mm with 1.5 metre wire and joint to two pin plug

01

55

Blade

(shaving blades) (razor blades)

02

56

Candle

01

57

Carbon resistor (1/2W)

10k  $\Omega$ , 15k  $\Omega$

20k  $\Omega$ , 125k  $\Omega$ ,

10 each

840  $\Omega$ , 47  $\Omega$ , 240 $\Omega$

58

Cartridge fuse with fuse holder

125mA fuse rating As per sample

02

59

Double Concave lens

15,20 cm focal length, diameter 5cm

02 each

60

Concave mirror

15,20 cm focal length, diameter 5cm

02 each

61



## Connecting wires

One roll thread wrapped copper wire SWG 24 (As per sample) 100g.

01

62

Double Convex lens

15,20 cm focal length, diameter 5cm

02 each

63

Convex mirror

15,20 cm focal length, diameter 5cm

02 each

64

Daniel cell

Diameter 80-85mm height -130mm with empty porous pot and zinc rod 12mm dia

01

65

Drawing board

30cm×25cm× 1cm

01

66

LED

Red and Green packed in plastic bag

20 each

67

PN junction diode

IN4007

15 pieces

68

Capacitor

0.1 micro farad, 10 microfd

15 pieces each

69

IC

741, 7400

15 each

70

Transistor

BC-547nnp BC-557pnp

15 each

71

Folding meter scale

One meter plastic scale. (As per sample)

01

72

Galvanometer

30-0-30 packed in thermocol box Standard quality

02

73

Glass Slab

10cm×5/6cm×1.5/1.8 cm

01

74

'U' shape magnet

Arm length 50mm. N & S poles marked. ALNICO material

01

75

Jockey

Tip size 8mm

02

76

LDR with box

LDR 100kW dark resistance

01

77

## Leclanche cell

Pot size 90mm×90mm×160mm) with filled porous pot and zinc rod dia 12 mm

01

78

LED torch

white illumination

01

79

Manganin wire

SWG 26 100g roll

01 roll

80

Multimeter

As per sample VDC:0-600V, VAC:0-600V IDC:0-200mA,10A hfe range resistance:0-2MW diode range continuity range with extra fuses (×10) per multimeter

03

81

Optical bench assembly

Four pieces of scales of length 58cm with marking 0-50cm on one side and 50-100cm on other side. Scale width 25mm and thickness 8/10mm. End locking pins (2), strips for joining scales (2), sliding bases for uprights (4), sliding upright holder (4), mirror/lens holders (2), screen (10cm×15cm).

01

82

Pencil

Different colours

04

83

Pins

a. Drawing pins

b. Awl pin

20 each

84

Plane mirror

80mmx80mmx3mm

02

85

Plug Key

3. Brass, One way key

ii) Brass two way key

03

01

86

Plumb line (small size)

01

87

Polaroid

Two separate pieces of Polarizer and analyzer fixed on cardboard sheet size 50x50mm

01

88

Potentiometer

10 wires of 50cm each fixed on wooden board with jockey 8mm tip size.

01

89

Prism

38x38mm equilateral As per sample

01

90

Full protractor

Transparent, plastic, standard, 0 – 360°

01

91

Rechargeable battery with charger

Rechargeable battery 2V

01

92

Resistance box

i) With five dials

0.1  $\Omega$ -1  $\Omega$  1  $\Omega$  -10  $\Omega$

10  $\Omega$  -100  $\Omega$

100  $\Omega$  -1000  $\Omega$

1000  $\Omega$  -10,000  $\Omega$

ABS body Box size 138mm/140mm x 113/115mm height 45mm

02 pieces

93

Rheostat

1. 30 $\Omega$  , 2A uraka wire 27 No. base phylum / plastic sheet 170x50mm thickness 6mm side support aluminium/ABS plastic rider width copper contactor 34mm.

2. 200 $\Omega$ , 1A uraka wire 34 No. base phylum  
/ plastic sheet 170x50mm thickness 6mm side support aluminium/ABS plastic rider width copper contactor 34mm.

01 each

94

Sand paper and emery Paper

Sand paper 120 No. Emery paper 100 No.

One sheet each

95

Set of resistor 5  $\Omega$  (one no.)10 $\Omega$  (One no), 20  $\Omega$  (Two no's), 30  $\Omega$  (One no),

15 mm x 15 mm x 125 mm with nicrome wire resistance, embedded in plastic case  
with terminal

01

96

Solenoid coil with removable iron core

Coil with inner diameter 20mm (core) with 400 turns of 26SWG enameled copper  
wire. Removeable core of diameter 16mm and length 75/80mm (iron or ferrite core)

01

97

Straw

10 pieces

98

Torch bulb with holder

2.5v bulb with holder and strips for connection compulsory

6 each

99

Torch

Three 1.5V cell torch

01

100

Transparent glass plate

10cmx10cmx0.3cm

01



101

Variable power supply

Regulated independent two power supply with rating 0 to 15V, 500mA. Individual power switch. Case should include terminal ports for output, knob to vary voltage. Provided in a box size (60x90x90mm) with 1-1/2 M-wire long power cable joint with two/three pin plug

01

102

Zener diode

1N-758 10V Zener

10 pieces

103

Bread board

Standard dimension.

1

104

Banana plug connecting wire

Standard with two way connection. Five red wire and five black.

05 sets

105

Crocodile Clips

Clips 38 mm, Plated, standard flexible wire 50 cm long. Each set two wire.

05 sets

106

Glass Dropper with rubber bulb

Borosilicate glass, length 100 mm, capillary length 20 mm, diameter 06 mm.

02 Nos.

107

Meter Bridge

Two part assembly with 0-50cm scale on one part and 50-100 cm scale on other part. Maximum length and width of each part should be 55 cm and 7.5cm respectively

01