

**REFERENCE LIST OF FURNITURE AND EQUIPMENT FOR
30-CLASSROOM PRIMARY SCHOOL WITH IMPLEMENTATION OF SMALL CLASS
TEACHING
IN 2024/2025 SCHOOL YEAR
ADOPTING STANDARD SCHEDULE OF ACCOMMODATION**

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	Guidance Activity and Interview Room	4	9,700
	Interview Room 1	5	6,500
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	Language Room	7	129,800
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	Audio Visual Aids	14	52,200
	General Purpose	15	26,000
	General Studies	16	110,100
	Music	17	144,200
	Physical Education	18	359,900
	Visual Arts	19	102,200
	<i>TOTAL</i>		3,451,500

School Building Section, EDB
July 2024

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: Computer Assisted Learning Room

Item No	Description	Quantity
1	Microcomputer workstation	21 sets
2	Printer or printer cum scanner (small)	2
3	Headphones	41
4	Splitter socket for headset	20
5	Media player (DVD/ VCD/ CD/Bluetooth/USB)	1
6	Smart TV	1
7	Digital video camera	1
8	Projection system with screen	1
	<u>Other furniture and equipment</u>	
9	Dehumidifier	2
10	Vacuum cleaner	1
11	Fire extinguisher	1
12	Teacher chair	1
13	Student chair	40
14	Bookcase / storage cabinet	1
15	Blackout curtains	1 set
	Total Cost for Room	159,100

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: Conference Room

Item No	Description	Quantity
1	Small conference table	8
2	Office Chair	24
3	Projection system with screen	1
	Total Cost for Room	18,700

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: General Furniture and Equipment

Item No	Description	Quantity
<u>30 CLASSROOMS</u>		
1	Projection system with screen	30
2	Student chair	842
3	Student desk	812
4	Umbrella stand	30
5	Teacher chair	30
6	Teacher desk	30
7	Bookcase / storage cabinet	60
8	Locker, 9 doors	130 sets
9	Microcomputer workstation	30 sets
10	Classroom server equipment	1 set
<u>4 SMALL GROUP TEACHING ROOMS</u>		
11	Student chair	84
12	Student desk	80
13	Teacher chair	4
14	Teacher desk	4
15	Bookcase / storage cabinet	4
16	Microcomputer workstation	4
<u>HEADMASTER'S OFFICE</u>		
17	Notice board	1
18	Bookcase / storage cabinet	1
19	Office chair (headmaster)	3
20	Office desk / reading desk	1
21	4-drawer cabinet with safe	1
22	Filing tray	2
23	Microcomputer workstation	1
<u>DEPUTY HEADMASTER'S OFFICE</u>		
24	Notice Board	1
25	Bookcase / storage cabinet	1
26	Office chair (headmaster)	3
27	Office desk / reading desk	1
28	4-drawer cabinet with safe	1
29	Filing tray	2
30	Microcomputer workstation	1
<u>GENERAL OFFICE</u>		
31	Key storage board	1
32	Notice board	1
33	4-drawer file cabinet	2
34	Drawer tray filing cabinet	1
35	First-aid cabinet	1
36	Office chair	5
37	Bookcase / storage cabinet	1
38	Office desk / reading desk	3
39	Rack, typist	1
40	Umbrella stand	1
41	Microcomputer workstation	3

Item No	Description	Quantity
42	Office desk / reading desk	1
43	Filing tray	4
44	Wall fan	1
45	Electric stapler	1
46	Punch binder	1
47	Facsimile machine	1
48	Time stamp machine	1
49	Labeller	1
50	Laminator	2
	<u>PRINTING ROOM & SECURITY STORE</u>	
51	Printer or printer cum scanner (large)	1
52	Printer or printer cum scanner (small)	1
53	Bookcase / storage cabinet	1
	<u>2 STAFF ROOMS</u>	
54	Microcomputer workstation	50 sets
55	Printer or printer cum scanner (large)	1
56	Printer or printer cum scanner (small)	1
57	Bookcase / storage cabinet	16
58	Office chair	52
59	Umbrella stand	3
60	Small conference table	4
61	Office desk / reading desk	50
62	Water dispenser	2 sets
	<u>MEDICAL INSPECTION ROOM</u>	
63	Notice board	1
64	First-aid cabinet	1
65	Office chair	7
66	Medical examination couch	1
67	Medical examination 2-step platform	1
68	Folding screen	1
69	Office desk / reading desk	1
70	Automated external defibrillator	1
	<u>DISCIPLINE MASTER'S ROOMS</u>	
71	4-drawer filing cabinet	1
72	Office chair	2
73	Office desk / reading desk	1
74	Notice board	1
75	Bookcase / storage cabinet	1
	<u>OFFICE FOR STUDENT GUIDANCE OFFICER</u>	
76	4-drawer filing cabinet	1
77	Office chair	3
78	Office desk / reading desk	1
	<u>STORE ROOM</u>	
79	Floor polisher	1
80	Ladder (short)	1
81	Ladder (tall)	1
82	Long folding table	6
	<u>PANTRY</u>	
83	Refrigerator	1
84	Electric tea urn	1

Item No	Description	Quantity
<u>ASSEMBLY HALL</u>		
85	Student chair	753
86	Lectern with stand	1
87	Pedestal fan	12
88	Public address system (stationed or portable)	1 set
89	Stage curtains	1 set
90	Curtain for high level windows	1 set
91	Small conference table	1
<u>OTHERS</u>		
92	Public address system (stationed or portable)	1
93	Folding tables and benches Maximum 2 sets per class. A set of this item includes 1 folding table and 2 benches.	60 sets (max.)
Total Cost for General Furniture		1,914,600

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: Guidance Activity and Interview Room

Item No	Description	Quantity
1	Small conference table	1
2	Tea table	1
3	Office chair	10
4	Sofa (2-seater)	2
5	Bookcase / storage cabinet	2
6	Notice board	1
7	Suggestion box	1
Total Cost for Room		9,700

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: Interview Room 1

Item No	Description	Quantity
1	Small round table	1
2	Tea table	1
3	Office chair	4
4	Sofa (2-seater)	2
5	Bookcase / storage cabinet	1
Total Cost for Room		6,500

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: Interview Room 2

Item No	Description	Quantity
1	Small round table	1
2	Tea table	1
3	Office chair	4
4	Sofa (2-seater)	2
5	Bookcase / storage cabinet	1
	Total Cost for Room	6,500

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: Language Room

Item No	Description	Quantity
1	Microcomputer workstation	21 sets
2	Projection system and screen	1
3	Teacher desk	1
4	Teacher chair	1
5	Student chair	40
6	Student desk	20
	Total Cost for Room	129,800

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: Multi-purpose Area

Item No	Description	Quantity
1	Student chair	200
2	Folding table and benches	20 sets
3	First-aid cabinet	1
4	Ceramic whiteboard	2
	Total Cost for Room	41,800

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: Preparation Room for Computer Assisted Learning

Item No	Description	Quantity
	<u>Computer Equipment Items</u>	
1	Microcomputer workstation	4
	<u>Computer peripherals</u>	
2	Printer or printer cum scanner (small)	2
	<u>Other equipment</u>	
3	Dehumidifier	1
4	Vacuum cleaner	1
5	Ceramic whiteboard	1
6	Fire extinguisher	1
	<u>Furniture</u>	
7	Teacher desk	1
8	Teacher chair	8
9	Bookcase / storage cabinet	1
10	Blackout curtains	1 set
	Total Cost for Room	34,600

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: Student Activity Centre

Item No	Description	Quantity
	<u>Furniture</u>	
1	Student chair	2
	<u>Equipment</u>	
2	Smart TV	2
3	Media player (DVD/VCD/CD/Bluetooth/USB)	2
4	Blackout curtains	1 set
5	Projection system and screen	1
6	HIFI system	2
7	Microphone	4
	Total Cost for Centre	37,100

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: School Library

Item No	Description	Quantity
1	Bookend set	60
2	Trolley	2
3	CD cabinet	1
4	Student chair	50
5	Office desk / reading desk	11
6	Headphones	4
7	Ceramic whiteboard	1
8	Microcomputer workstation	3 sets
9	Printer or printer cum scanner (small)	1
10	Automated library system	1
11	Barcode laser scanner	1
12	Media player (DVD/VCD/CD/Bluetooth/USB)	4
13	Library books (Including cataloguing tool books for teacher-librarian)	1 set
Total Cost for Library		127,200

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: Staff Common Room

Item No	Description	Quantity
	<u>Furniture</u>	
1	Sofa (3-seater)	1
2	Sofa (2-seater)	2
3	Long folding table	1
4	Teacher chair	12
5	Bookcase / storage cabinet	1
6	Tea table	1
7	Trolley	1
	<u>Equipment</u>	
8	Smart TV	1
9	Media player (DVD/VCD/CD/Bluetooth/USB)	1
10	Refrigerator	1
11	Microwave oven	1
12	Electric hot water kettle (small)	1
	Total Cost for Room	25,700

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Room: Tuck Shop-cum-Central Portioning Area

Item No	Description	Quantity
<u>Facilities</u>		
1	3-cabinet electric bain marie	1
2	Cooker for vegetables	1
3	Rice cooker	9
4	Boiler for drinking water	1
5	Dishwasher	1
6	Refrigerator for tuck shop	1
<u>Furniture</u>		
7	Working table / kitchen table	5
8	Trolley for transfer/collection of food/tray	9
9	Kitchen shelf	2
Total Cost for Tuck Shop		145,500

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Subject: Audio-visual Aids

Item No	Description	Quantity
1	Media player (DVD/VCD/CD/Bluetooth/USB)	8
2	Visualizer	1
3	Smart TV	2
4	Digital video camera	2
5	Video tripod	1
6	Projection system and screen	1
7	Bookcase / storage cabinet	1
	Total Cost for Subject	52,200

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Subject: General Purpose

Item No	Description	Quantity
1	Office desk / reading desk	2
2	Student chair	82
3	Bookcase / storage cabinet	4
4	Microcomputer workstation	1
5	Printer or printer cum scanner (small)	1
6	Blackout curtains	1 set
Total Cost for Subject		26,000

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Subject: General Studies

Item No	Description	Quantity
<u>EQUIPMENT</u>		
1	<u>Sexuality Education Teaching Dolls: Tak Tak & Kar Kar</u>	1
2	<u>Air pump, aquarium (水族箱用氣泵)</u> Quiet running diaphragm type. Metal/ tough plastic body with rubber/ foam rubber base. Supplied complete with spare diaphragm. For use on 220-240V 50 Hz, single phase, a.c. supplies. Either (a) bonded to earth through 3 core supply cable and 3 rectangular pin appropriately fused B.S.S. plug; or (b) properly double insulated, with 2 core supply cable and 3 rectangular pin appropriately fused B.S.S. plug. Power 3-5W.	1
3	<u>Air pump, driven by dry cells (氣泵·使用乾電池)</u> Quiet running diaphragm type. Metal/ tough plastic body with rubber/ foam rubber base. Supplied complete with spare diaphragm. Power supplied by dry cells.	1
4	<u>Aquarium (水族箱)</u> Capacity of about 60 litres.	1
5	<u>Alcohol, methylated spirit (加甲醇酒精)</u> Industrial grade, blue, 1 bottle of 500 ml	500 ml
6	<u>Balance, compression (壓縮彈簧秤)</u> Light-duty, with a clearly marked dial, protected by a strong plastic lens. Circular scale, 100 mm diameter or over. Capacity : 1,000 x 5 g Dimension : Overall (excluding pan) about 150 mm x 130 mm x 160 mm (length x width x height) Pan : About 300 mm x 200 mm x 25 mm (length x width x height)	1
7	<u>Ball and ring (金屬球與環)</u> For demonstrating thermal expansion, brass ring with hardwood handle and ball 25 mm diameter attached by chain overall length should be about 210 mm.	1 set
8	<u>Basin, small (洗臉盆)</u> Plastic, approx. 300 mm (diameter)	8
9	<u>Battery holder (電池夾)</u> 2 A.A. dry cells	20
10	<u>Beaker (燒杯)</u> (a) Squat form with spout, with two or more graduation marks showing approximate capacities. Pyrex or equivalent, 500 ml. (b) Squat form with spout, with two or more graduation marks showing approximate capacities. Pyrex or equivalent, 250 ml.	5 10
11	<u>Bench mat (實驗檯墊)</u> Made of glass reinforced cement, 300 x 300 mm, 4.5 mm thick.	1
12	<u>Bulbs, for torch (燈泡·電筒用)</u> 1.5 V, pack of 10	10 packs
13	<u>Buzzer module (蜂鳴器)</u> Electric buzzer, 1.5-6 V d.c.	10
14	<u>Calcium hydroxide (氫氧化鈣)</u> In bottle of approx. 500 g. For preparation of lime-water.	1 bottle
15	<u>Chick, life history (demonstration mount specimen) (雞的生活史展示用標本)</u> Showing stages in embryonic development. With embryos at 2 - 3, 5 - 7 and 9 - 10 days of incubation.	1
16	<u>Conductivity kit (傳導實驗套件)</u> To show different thermal conductivities, each kit comprising Copper rods, Brass rods, Aluminum rods, Iron rods, Borosilicate glass; 8 rods for each of the above, all of 250 mm (L) x 3 mm (diameter).	8
17	<u>Cylinder, graduated (量筒)</u> (a) With spout, glass, 10 ml. (b) With spout, glass, 100 ml. (c) With spout, glass, 500 ml.	2 2 2
18	<u>Dental care model (牙齒模型)</u> The model is about three times full size and shows the upper and lower half of an adult's dentition. A matching giant toothbrush is attached for demonstrating the correct tooth cleaning technique. Dimensions: 180 x 230 x 120 mm.	2
19	<u>Dicotyledon flower model (雙子葉花的構造模型)</u> Enlarged, 12-part, Height : 450 mm	2
20	<u>Direction demonstration board (方向教學板)</u> Showing 8 major directions, diameter approx. 500 mm	2
21	<u>Drinking straw (吸管)</u>	1 pack

Item No	Description	Quantity
22	<p>Plastic, pack of 100</p> <p><u>Eye wash unit (洗眼設備)</u></p> <p>Equipped with an eye wash bottle. For emergency treatment of the eye affected by liquids, dust or flying particles. By squeezing the bottle, a fountain of wash is directed into the eye via the eye bath. Contaminated wash drains through the side tube, so that a continual flow of clean wash reaches the eye. When not in use, eye bath is covered by a dust cap. The bottle is clipped into a moulded panel on which simple but complete instructions are printed. The panel has holes for wall hanging.</p>	1
23	<p><u>Fire bucket (砂桶)</u></p> <p>With cover, made of iron, red in colour with label "FIRE BUCKET" approximately 245 mm x 230 mm (diameter x height).</p>	2
24	<p><u>Flask, vacuum (保溫瓶)</u></p> <p>Domestic type with wide mouth and stainless steel inner part for storing ice or transporting hot water to the classroom. Capacity about 500 ml.</p>	2
25	<p><u>Funnel stand (漏斗支架)</u></p> <p>Hard wood, single type. Dimension of base approximately 200 mm x 100 mm. Funnel holders are slotted for ease of funnel entry.</p>	3
26	<p><u>Funnel, filter (過濾漏斗)</u></p> <p>Polypropylene, 75 mm top diameter, 75 mm stem length.</p>	3
27	<p><u>Gas jar, with cover (集氣瓶, 連蓋)</u></p> <p>With base and ground top flange, glass, 50 mm x 200 mm (diameter x height), with circular glass cover, ground one side, 75 mm diameter.</p>	2
28	<p><u>Glasses (玻璃杯)</u></p> <p>Transparent, colourless, capacity about 250 ml.</p>	10
29	<p><u>Globe (地球儀)</u></p> <p>(a) Physical Globe (地形地球儀)</p> <p>Showing mountains, rivers and other features of the earth's surface in colour, minimum 30 cm diameter, mounted on wood/ plastic/ metal base with tilted axis.</p> <p>(b) Political Globe (政區地球儀)</p> <p>Showing clear locations of political divisions of the world in colour, with a minimum diameter of 30 cm, mounted on wood/ plastic/ metal base with tilted axis.</p>	1
30	<p><u>Heater aquarium (水族箱暖管)</u></p> <p>Immersion type, thermostatically controlled.</p> <p>Comprising a heating element encased in a plastic-coated aluminum tube and a thermostat in an upper polycarbonate sheath. The thermostat can be adjusted using an external knob and incorporates a heater indicator lamp. The whole unit is enclosed in a glass tube which is sealed to the inner tube by the outer lip of the stopper. A suction clip is provided to enable attachment to the side of aquarium.</p> <p>For use on 220-240V, 50 Hz, single phase, a.c. supplies.</p> <p>Either (a) bonded to earth through three-core supply cable and 3 rectangular pin appropriately fused B.S.S. plug; or (b) properly double insulated, with two-core supply cable and 3 rectangular pin appropriately fused B.S.S. plug.</p> <p>Power 75-100W.</p>	1
31	<p><u>Human skeleton with flexible spinal column, mini (人體骨骼模型, 小型)</u></p> <p>Flexible spinal column showing spinal nerve exits. All the important anatomical details are accurately reproduced. Supplied on hanging stand with wooden base, removable.</p> <p>Height : 56 cm</p>	1
32	<p><u>Hydrogencarbonate Indicator solution (碳酸氫鹽指示劑)</u></p> <p>In bottle of approx. 1,000 ml</p>	1 bottle
33	<p><u>Projection system and screen</u></p>	1
34	<p><u>Magnet (磁鐵)</u></p> <p>(a) Rectangular bar, in pairs with keepers, length 75 mm.</p> <p>(b) Rectangular bar, in pairs with keepers, length 45 mm.</p>	2
35	<p><u>Magnifier (放大鏡)</u></p> <p>x 4 to x 8</p>	40
36	<p><u>3D Map, Physical (立體地形圖)</u></p> <p>(a) China (中國)</p> <p>(i) A3 size</p> <p>(ii) A4 size</p> <p>For the item in relation to the map (items 37), the school should follow / make reference to information available on the Ministry of Natural Resources of the People's Public of the China (website: http://www.mnr.gov.cn reference page: http://bzdt.ch.mnr.gov.cn/) for ensuring the accurate display of the territorial region of China</p>	10
37	<p><u>Metre Rule, hardwood (直尺, 木製)</u></p> <p>1 m</p>	1
38	<p><u>Microcomputer workstation (微型電腦工作站)</u></p>	1
39	<p><u>Microscope, hand (手持顯微鏡)</u></p> <p>A high quality x30 magnification instrument with built-in illumination and a retractable condenser/daylight filter slide. Accurate focusing is facilitated by the provision of a rotary control.</p> <p>Power supplied by dry cells.</p>	40

Item No	Description	Quantity
	Supplied complete with lens-ended bulb and protective case. Dimension approx. 140 x 40 x 20 mm overall.	
40	<u>Mineral specimen set (礦物樣本套)</u> A comprehensive collection of mineral, in strong box with partitioned tray containing 30 or more specimens, each about 40 x 30 mm, with descriptive label and/or pamphlet in Chinese providing the geological name, and geographical location of each.	1
41	<u>Mirror, cosmetic (化粧鏡)</u> About 125 x 180 mm	1
42	<u>Mirror, plane (平面鏡)</u> About 100 x 75 mm	40
43	<u>Motor unit (小型摩打連座) / (電動機連座)</u> Comprising 2 to 6V d.c. dynamic motor mounted on a box channel with two 4 mm sockets. Dimensions 90 x 65 x 30 mm height.	10
44	<u>Orbiter, motorized and illuminated (三球儀·電動及發亮)</u> To demonstrate how the earth orbits the sun and the moon orbits the earth. The model can be used to show day, night, seasons of the year, changing length and directions of shadows. Phase of the moon as well as eclipses of the sun and moon can be shown. Supplied with teaching notes. The model should be driven by dry cells.	1
45	<u>Organ tunic (人體器官短袍)</u> A tunic with 3D rib cage and 8 attachable velcro backed organs and labels. Unravel the intestine to see how long it is. Length 87 cm.	1
46	<u>Orienteering compass (定向羅盤)</u> The compass needle is enclosed in a clear liquid-filled housing, with a clockwise 0 - 360 scale and North/ South index lines which can rotate on a rectangular clear plastic base plate. Convenient measuring scale on bevelled end and on one of the base plates.	10
47	<u>Ping-pong ball (乒乓球)</u> Pack of 6	2 packs
48	<u>Platform scales (體重磅) /浴室磅</u> Personal scales with a black ribbed top surface. Zero adjustment provided. Overall size 265 x 265 x 55 mm. Range 120 kg x 0.5 kg.	1
49	<u>Plug (插頭)</u> Three-pin flat, moulded plastic body, with 13 A cartridge fused-linked, for use on 200 - 220 V a.c., 50 Hz, single phase supplies; complied with the latest British Standard Specifications (BS 1363) or fully equivalent.	10
50	<u>Polystyrene tray (塑膠托盆)</u> (a) Approximately 310 x 420 x 160 mm (L x D x H).	30
	(b) Approximately 310 x 420 x 80 mm (L x D x H).	30
51	<u>Pot, flower (花盆)</u> Porcelain/ plastic. 100 mm in diameter.	20
52	<u>Prism, glass, equilateral, dense flint (三稜鏡·等邊·重火石玻璃)</u> 60 x 60 x 60 deg. equilateral sides 32 mm. Height 32 mm. Dense flint, refractive index U=1.62	10
53	<u>Pulley, single (單滑輪)</u> Aluminum, 50 mm diameter approximately, mounted in metal frame with two hooks to fit over 13 mm diameter rods.	10
54	<u>Pulley set (滑輪組)</u> Comprised of a rectangular laminated wooden base approx. 125 x 150 mm which supports a threaded rod measuring about 125 x 610 mm in a metal flange fitted with a capstan and a screw eye. Six clamps (hook collars) are provided for suspending pulleys and cords on an adjustable cross rod approx. 9.5 x 200 mm, held by a right-angled clamp. Supplied with : 8 single pulleys 2 double sheave pulleys 1 wheel and axle 7 weight hangers (5 of 50 g and 1 each of 10 g and 20 g) 9 slotted weights (1 of 10g, 2 of 20 g, 1 of 100 g, 1 of 500 g and 1 of 1,000 g) 1 spool of cord 1 tommy bar to tighten the vertical rod and instruction manual Rods, pulleys and clamps are made of either plated metal or polished aluminum. Slotted weights and weight hangers are made of brass.	1 set
55	<u>Rain gauge (雨量器)</u> Comprising (a) a copper funnel about 200 mm diameter (b) a copper cylindrical outer body 198 mm diameter x 360 mm overall length, with an inner glass receiving cylinder 70 mm diameter x 200 mm length and a glass measuring jar graduated 0 to 10 mm x 0.1 mm (100 divisions).	1
56	<u>Retort stand (鐵支架)</u> Supplied with bosshead and clamp. Retort stand base: iron with corrosion resistant finish, minimum size 160 x 100 mm. (a) Stand rod : Cadmium plated mild steel/bright aluminum alloy. Approximately 500 x 12 mm (length x diameter) (b) Clamp : Enables articles from 2 to 90 mm diameter to be clamped securely. Design of the jaw ensures a firm grip at all angles of opening. The cork liners for the jaws are well secured. With 8 mm diameter rod suitable for use in bosshead.	10 sets

Item No	Description	Quantity
	(c) Bosshead : With offset jaws for great strength. Give a firm grip in either jaw on rods up to 16 mm diameter.	
57	<u>Rock specimen set (岩石標本套)</u> A collection of igneous, metamorphic and sedimentary rocks in strong box with partition and tray containing 30 or more specimens each about 40 x 30 mm, with label and/ or pamphlet in Chinese providing the geological name and geographical location.	1 set
58	<u>Scissors (剪刀)</u> Straight, blunt ends, close shanks. Overall length 170 - 175 mm.	10
59	<u>Screwdriver (螺絲批)</u> (a) Electrician's, with insulated handle, length of blade about 100 mm. (b) Philips type, with plastic handle, for cross-head screws, length of blade about 100 mm.	10 10
60	<u>Spirit lamp with metal tray (酒精燈與金屬托盆)</u> (a) Glass burner and cap, with wick and metal wick holder, capacity 100 cm ³ , height 105 mm. (b) The tray should be approximately 500 x 400 mm for holding the spirit lamp	1 1
61	<u>Stopwatch (秒錶)</u> Read 0 - 60 second in 0.2 s, with start, stop and re-set buttons.	10
62	<u>Simple machines models set</u> (including gears, levers, pulleys, wheels and axles)	10
63	<u>Test tube (試管)</u> (a) Pyrex or equivalent, 150 x 24 mm (rim), with rubber stopper (b) Pyrex or equivalent, 125 x 16 mm (rim)	10 50
64	<u>Test tube brush (試管刷)</u> Nylon and with fan shaped end, and galvanized wire handle. Diameter of head 30 mm, for tube of diameter 16 to 25 mm.	10
65	<u>Test tube holder, wooden (試管夾, 木製)</u> With steel spring, to take tubes up to 19 mm diameter, length about 185 mm	10
66	<u>Test tube rack, wooden (試管架, 木製)</u> (a) For teacher's use Single row with pegs, 10 holes of 16 mm diameter, 2 holes of 25 mm diameter (b) For group activity Single row with pegs, 6 holes of 16 mm diameter, 2 holes of 25 mm diameter.	4 10
67	<u>Digital thermometer</u> Water-proof, Celsius, range -50°C to 150°C	10
68	<u>Thermometer, alcohol (溫度計 - 酒精, 攝氏)</u> Celsius, range -10°C to 110°C x 1°C, red spirit filled, with reinforced bulb and permanent graduations.	10
69	<u>Torch (手電筒)</u> Battery requirement, 2 x D size	10
70	<u>Torso, human (anatomical model) (人體軀幹解剖學模型)</u> Life size, head and trunk, mounted on a base with interchangeable male and female reproductive organs. Made of unbreakable plastic materials, dissectible into at least 20 parts. Head features : Detachable, one side of the head opened to reveal half brain, eye, teeth and jaw. Neck features : Opened to show trachea. Thorax features : With chest cover showing mammary gland, muscle and ribs, removable to show internal organs, dissectible lungs and heart. Abdomen features: Removable liver, stomach, pancreas, small and large intestine, kidney. Interchangeable male and female reproductive organs. Urinary system and all major blood vessels present. All anatomical features should have an accompanying key.	1
71	<u>Tripod stand (三腳架)</u> Cast iron, with splayed steel legs, height about 140 mm	1
72	<u>Vaseline (凡士林)</u> A bottle of 500 g	1 bottle
73	<u>Wind meter (風速計)</u> Portable and hand-held for measuring wind speed. The wind speed is indicated by a small sphere moving in narrow tube against a twin scale reading from 2 to 10 mph and from 4 to 66 mph. Supplied in waterproof plastic case with maintenance kit for cleaning tube, and instructions for use.	1

Item No	Description	Quantity
74	<u>Wind vane (風向標)</u> Pointer rotates on a vertical steel shaft to be fixed on a mast. Indication of directions North, East, South and West are fixed to the shaft.	1
75	<u>Wire gauze (鐵絲網)</u> Steel wire with ceramic centre, 125 x 125 mm	1
76	<u>Wire stripper (電線開線鉗)</u> Adjustable for different wire or cable sizes, also serves as a wire cutter.	10
77	<u>Dropper</u> Plastic, with rubber nipple, overall length 90mm	30
78	<u>Safety screen</u> Acrylic, 610 x 300 x 4.5 mm	4
79	<u>Safety spectacles</u> Adjustable temple length and lens angle, anti-fog	40
80	<u>Safety gloves</u> (a) nitrile, disposal, powder free	50
	(b) cotton, light duty	50
81	<u>Fire igniter</u> Gas lighter	2
82	<u>Tuning fork</u> Set of 8, aluminium	2
83	<u>Stethoscope</u>	10
84	<u>Reagent bottles</u> 250ml, polyethene stopper, narrow mouth borosilicated glass	10
85	<u>Renewable energy education kit</u> Include Wind turbine, Circuit board module base, Solar panel, Adaptors, tubing clincher & purging valve, Water/gas tank module base, Flexible 2mm banana connecting leads, Transparent silicon tubing, Battery pack with connecting leads	1
	<u>Furniture</u>	
86	<u>First-aid cabinet (急救箱)</u>	1
87	<u>Student chair (學生椅)</u>	41
88	<u>Teacher desk (老師檯)</u>	1
89	<u>Movable bench (可移動實驗檯)</u> 1,100 mm x 700 mm x 710 mm (length x width x height) with acid and heat resistant plastic laminate on top.	8
90	<u>Crocodile leads (鱷魚線)</u> 500mm length, crocodile clips with PVC connecting wire	100 pairs
91	<u>Bulb holders (燈泡座)</u> for use with 1.5 V bulbs	40
92	<u>Red electric wire (紅線(正極))</u> Multiple wire #26 in bundle of 300 pieces length: approx. 8"	1 bundle
93	<u>Black electric wire (黑線(負極))</u> Multiple wire #26 in bundle of 300 pieces length: approx. 8"	1 bundle
94	<u>Switches (開關制)</u> 2A, 3 leads	40
95	<u>Balloon pump (氣球用氣泵)</u>	10
96	<u>Balloons (吹氣球)</u> pack of 100 pieces	1 pack
97	<u>Measuring Tape (拉尺)</u> Made for fibreglass or fabric Length: 30m	1
98	<u>Flexible rules (軟尺)</u> Length: approx. 2m	10
99	<u>Water filter (教學示範用濾水器)</u>	1
100	<u>White cotton (白棉花)</u> Pack of 454g	2 packs
101	<u>Activated carbon (活性碳)</u> Pack of 500 g	2 packs
102	<u>High density foam board (珍珠板)</u> Dimension: approximately 150 cm x 50 cm	20
103	<u>Card paper (硬咭紙)</u>	20 pieces

Item No	Description	Quantity
104	Dimension: approximately 50 cm x 50 cm <u>PVA glue (PVA 膠漿)</u> In bottle of approx. 500 ml	2 bottles
105	<u>Solar cell panel (太陽能電池板)</u> Dimension: approximately 5.5 cm x 8 cm	20
106	<u>Tool box with accessories (工具箱連工具)</u> Tool box with accessories, at least 42 pieces of accessories which shall include but not limit to the following (工具箱連工具，最小包含下列物品)： 1. hand saw (小手鋸) 2. hand saw blades (鋸片) 3. multimeter (萬用表) 4. jaw diagonal pliers (萬用鉗) 5. long nose pliers (尖咀鉗) 6. wire cutter (剪線鉗) 7. wire stripper (脫線鉗) 8. soldering iron, 20-30W, 220V (電烙鐵) 9. soldering wire, at least 1m (錫線) 10. desoldering pump (吸錫泵) 11. screw driver set (一字、十字批一套) 12. hammer, 1/2 to 1 Pound (鎚) 13. wrench, 6" to 8" (士巴拿) 14. hexagon key set (六角匙一套)	1
107	<u>Water rocket</u> With launcher and air pump, projection launcher with wire control	1
108	<u>Fire Blanket</u> 1200 x 1200 mm	1
109	<u>Hot melt glue gun</u> Trigger-feed operation, safety PTC heating system, non-leaking nozzle with stand	10
	Total Cost for Subject	110,100

**Reference List of Furniture and Equipment for
30-classroom Primary School**

Subject: Music

Item No	Description	Quantity
	<u>FURNITURE</u>	
1	<u>Teacher desk</u>	1
2	<u>Student chair</u>	40
3	<u>Bookcase / storage cabinet</u>	2
	<u>MUSICAL INSTRUMENTS/EQUIPMENT</u>	
	<i>Pianos and Keyboard</i>	
4	<u>Upright school model piano</u>	2
5	<u>Upright piano cover</u>	2
	<i>Pitched Percussion Instruments</i>	
6	<u>Soprano Glockenspiel</u> -Single row -C major scale c" - c# "" with additional F# and Bb -19 individual removable bars (20 x 4 mm) complete with one pair of double-headed beaters - with case and one pair of double-headed rubber beaters	1
7	<u>Chromatic Glockenspiel</u> -Tenor-alto range c" - c# "" with additional F# and Bb -26 individual removable bars (20 x 4 mm) double row with chromatic scale together with case and one pair of double-headed rubber beaters	1
8	<u>Soprano Xylophone (Rosewood)</u> -Single row -C major scale c" - f# " with additional F# and Bb -14 individual bars (40 x 15 mm) complete with one pair of single-headed beaters	1
9	<u>Tenor-alto Xylophone (Rosewood)</u> -Diatonic c' - c# "" with additional F# -19 individual bars (40 x 15 mm) complete with one pair of single-headed beaters	1
10	<u>Bass Xylophone (Rosewood)</u> -Diatonic c' - a" with additional F# and Bb -16 individual bars (40 x 18 mm) complete with one pair of single-headed beaters	1
11	<u>Set of Chime Bars</u> -single notes C " - c# "" accurately tuned and mounted on a tuned wood or metal resonator -26 individual notes forming a chromatic scale as specified above with a pair of medium-hard rubber single-headed beaters	1
	<i>Unpitched Percussion Instruments</i>	
12	<u>Triangle</u> 15 cm, with beater and holder	8
13	<u>Solo Triangle</u> 24 cm, with beater and holder	2
14	<u>Pair of wooden Castanets</u> mounted on a wooden handle	4
15	<u>Pair of Finger Castanets</u>	4
16	<u>Tambourine</u> 25 cm vellum, with jingles and wooden frame	8
17	<u>Tambour</u>	4

Item No	Description	Quantity
18	25 cm vellum <u>Pair of Cymbals</u>	2
19	20 cm <u>Cymbal</u>	1
20	40 cm, with stand and soft beater <u>Two-tone Tubular Woodblock</u>	4
21	with beater and holder <u>Sleigh Bells</u>	8
22	with 10 bells and handle <u>Pair of Claves</u>	4
23	Rosewood, large size <u>Pair of wooden Maracas</u>	2
24	Mexican style or fish style <u>Cabasa (standard size)</u>	2
25	<u>Guiro</u>	2
26	<u>Pair of Bongo Drums</u> with stand	2
27	<u>Snare Drum</u> with stand and beaters	1
28	<u>Bass Drum</u> with stand and beater	1
29	<i>Other Instruments</i> <u>Descant Recorder / Soprano Recorder</u>	4
30	Baroque fingering <u>Treble Recorder / Alto Recorder</u>	2
31	Baroque fingering <u>Melodica (36 notes)</u>	1
32	<u>Portable Electronic Keyboard</u> with transformer and stand -61 full-size keys -32-note polyphonic sounds or more -MIDI in /out	1
33	<u>Guitar</u> <i>Music Stand</i>	1
34	<u>Music Stand</u> - desk adjustable (Pipe : 30 mm diameter) - with wide, folding leg	4
35	<i>Chinese Percussion Instruments</i> <u>Pair of Dajingbo (大京鈸一對)</u>	1
36	<u>Pair of Xiaojingbo (小京鈸一對)</u>	1
37	<u>Zhangu with stand and beaters (戰鼓連架及棒子)</u>	1
38	<u>Shuangpigu with stand and beaters (雙皮鼓連架及棒子)</u>	1
39	<u>Wuyinmuyu with stand and beaters (五音木魚連架及棒子)</u>	1
40	<u>Pair of Dabo, 40 cm (大鈸一對, 40厘米)</u>	1
41	<u>Zhonghuyinluo with beater (中虎音鑼連棒子)</u>	1
42	<u>Jingluo with beater (京鑼連棒子)</u>	1
43	<u>Stand for Luo and Bo (鑼查架一套)</u>	1
44	<u>Xiaoluo with luo pian (小鑼連鑼片)</u>	1
45	<u>Wuyingu with stand and beaters (五音鼓連架及棒子)</u>	1
46	<u>Dabukyu with beater, Rosewood (花梨木大卜魚連棒子)</u>	2

Item No	Description	Quantity
47	<u>Pair of Pengling (碰鈴一對)</u>	4
48	<u>Shadi with stand and beaters (沙的連架及棒子)</u>	1
49	<u>Projection system with screen</u>	1
50	<u>Dehumidifier</u>	1
51	<u>Media Player (DVD/VCD/CD/Bluetooth/USB)</u>	1
52	<u>Pair of Stereo Speakers</u> with amplification	1
	<i><u>A Collection of Self-chosen Teaching Materials</u></i>	1 set
53	<u>Audio-visual materials (such as CDs and DVDs)</u>	
54	<u>Microcomputer Workstation</u>	
55	<u>Music Software (such as notation and/or sequencing software)</u>	
56	<u>Wall Charts</u>	
57	<u>Music Scores / Music Books</u>	
58	<u>Teachers' Reference Books</u>	
59	<u>Blackout Curtains</u>	1 set
	Total Cost for Subject	144,200

Item No	Description	Quantity
13	Rubber, in various colours Dia. : 165 mm Weight : 280 g Dia. of rubber ring : 25 mm <u>Rubber Ball</u> With good quality rubber. Dia. : (a) 63 mm (b) 125 mm (c) 178 mm	35 35 35
14	<u>Height measure and weighing machine</u>	2
15	<u>Smart TV</u>	1
<u>ATHLETIC EQUIPMENT</u>		
16	<u>Cricket Ball</u>	10
17	<u>Hurdle for practice</u>	
	Made of plastic, height	
	A. 500mm B. 300mm C. 150mm	10 10 10
18	<u>High jump stands & jumping cord</u>	1 set
	Two cross pieces at bottom of the stand to make a firm base with stays fixed diagonally to posts. Sliding metal buckles for adjustment of height. (Complete with jumping cord of plaited or braided jute with leather weight bags at both ends.) Height of stands : 1,830 mm	
19	<u>Relay baton</u> Aluminum	10
20	<u>Softball</u> White colour, covered with leather or synthetic	20
21	<u>Stop watch</u>	3
	1/100 second. Measures accumulated split times.	
<u>BALL GAMES EQUIPMENT</u>		
22	<u>Foot pump</u> With needle injector for laceless balls	1
23	<u>Pump or compressor unit</u>	1
	200-220V, 50 Hz, single phase A.C., earthed B.S.S. fused plug, 200 W approx. 500 g/sq. cm max working pressure, without air receiver. Electric component & cabling conform to the latest B.S.S., earthing through 3 core supply cable.	
<u>Badminton</u>		
24	<u>Badminton net</u>	2
25	<u>Badminton stands</u>	2 pairs
	Portable with a solid base. Height : 1,550 mm	
26	<u>Badminton racket</u>	40
27	<u>Shuttlecock</u>	
	(a) Plastic or nylon (practice) (b) Feather (competition)	5 doz 2 doz
<u>Basketball</u>		
28	<u>Basketball</u>	

Item No	Description	Quantity
	a) Synthetic, junior Circum. : 600 - 730 mm Weight : 450 - 500 g	20
	b) Synthetic, regular size	20
29	(a) <u>Basketball stand with fibreglass backboard and ring</u> For open playground, specification must conform to the latest International Basketball Rules. <i>(Basketball stands should be adequately secured or anchored to the ground)</i> (Price includes installation.)	2 pairs
	OR	
	(b) <u>Basketball fibreglass backboard with ring</u> Specification must conform to the latest International Basketball Rules. (Price includes installation.)	2 pairs
	OR	
	(c) <u>Basketball ring</u> (Price includes installation.)	2 pairs
	<u>Football</u>	
30	<u>Football</u> (size 3) Leather	20
31	<u>Football</u> (size 4) Leather	20
	<u>Table Tennis</u>	
32	<u>Table tennis ball</u>	60
33	<u>Table tennis bat</u>	40
	Wooden bladed, could be covered with plain pimpled rubber or sponge and pimpled rubber, the two faces should be in 2 different contrast dark colour	t
34	<u>Table tennis net & clamps (iron)</u>	4 sets
35	<u>Table tennis table</u> hardwood or plywood or particle board in dark green or dark blue. Could be folded and moved on rollers. Size : 2,740 mm x 1,525 mm Thickness : 16 - 30 mm Height : 762 mm (regular)	4
	<u>Volleyball</u>	
36	<u>Volleyball</u> Leather. Regular size	20
	<u>Handball</u>	
37	<u>Handball</u> Synthetic, size 1.	20
38	(a) <u>Handball goal with net</u> (with or without trolley) Post : made of wood, metal or light metal painted in 2 contrasting colours. Specifications must conform to the latest rules of the International Handball Federation. <i>(School should choose either type; i.e. with or without trolley)</i>	1 pair
	OR	
	(b) <u>Handball net</u> Made of hemp or nylon. Depth at top : 800 mm	1 pair

Item No	Description	Quantity
	Depth at bottom : 1,000 mm	
	Mesh : 100 mm x 100 mm	
	<u>DANCE EQUIPMENT</u>	
39	<u>Tambourine with jingles</u>	
	(a) Large	1
	Dia. : 280 mm	
	(b) Small	1
	Dia. : 178 mm	
40	<u>Media Player (DVD/VCD/CD/Bluetooth/USB)</u>	1
41	<u>Amplifier with portable microphone</u>	1
	<u>FITNESS EQUIPMENT</u>	
42	<u>Medicine ball</u>	6
	Made of rough hide with well stitched panels	
	Weight : 1.8 kg	
43	<u>Skinfold caliper</u>	2
	Made of plastic, alloy or steel,	
	Measure scale : 0 - 50 mm, 1 mm interval	
44	<u>Sit and reach box</u>	2
	Made of sturdy wood or comparable construction material.	
	Measuring scale : should extend from about 9 - 50 cm with the	
	23 cm mark exactly in line with the vertical plane against which	
	the feet will be placed.	
45	<u>Handgrip dynamometer</u>	4
	<u>GYMNASTIC EQUIPMENT</u>	
46	<u>Gymnastic mat</u>	8
	Airex (Swiss), sponge rubber	
	Size : At least 1520 mm x 1220 xx x 30mm	
47	<u>Spring-board</u>	2
	Surface must be covered with non-slippery layer of strong	
	elastic material. The elasticity must be most effective at the	
	highest point.	
	*Local made not recommended	
	Length : 1,200 ± 5 mm	
	Width : 600 ± 3 mm	
	Thickness : 120 - 140 mm (front brim)	
48	<u>Vaulting box</u>	1
	In 5 section, with casters, made of pinewood.	
	Top cover made of best quality cow hide leather. Stuffing at	
	top panel should be outstanding, firm and evenly distributed.	
	Bottom : 1,300 mm x 900 mm	
	Top : 1,300 mm x 350 mm	
	Height : 1,000 mm	
	<u>FURNITURE FOR STORAGE OF EQUIPMENT</u>	
49	<u>Bookcase / Storage Cabinet</u>	3
50	<u>Metal Baskets</u>	4
51	<u>Ball Trolley</u>	1
	Made of wire-mesh, with non-making multi-direction	
	swivel casters	
	Length : 1,067 mm	
	Width : 609 mm	

Item No	Description	Quantity
52	Height : 915 mm Dia. of caster : 80 mm <i>(School should choose either type; i.e. with or without lid)</i> <u>Mat trolley</u> (horizontal, with or without handle) for gymnastic mats, made of painted G.I. tube, with swivel non-marking rubber multi-direction swivel casters Length : 1,800 mm Width : 1,200 mm Diameter of tube : 25 mm Diameter of caster : 220 mm <i>(School should choose either type, i.e.with or without handle)</i>	1
53	<u>Polypad trolley</u> (vertical) Made of painted G.I. tube, with non-marking rubber multi-direction swivel casters Length : 2,450 mm Width : 850 mm Height : 2,200 mm Dia. of tube : 25 mm Dia. of caster : 220 mm	1
	Total Cost for Subject	359,900

**Reference List of Furniture and Equipment
for 30-classroom Primary School**

Subject: Visual Arts

Item No	Description	Quantity
<u>FURNITURE</u>		
1	<u>Student working table</u>	7
2	<u>Student chair</u>	40
3	<u>Teacher desk</u>	1
4	<u>Teacher chair</u>	1
5	<u>Work table</u> heavy duty, san cheung, 1,830 mm (W) x 920 mm (D) x 710 mm (H). fixed wooden legs	1
6	<u>Bookcase / Storage Cabinet</u>	1
7	<u>Blackout curtains</u>	1
<u>TOOLS AND EQUIPMENT</u>		
8	<u>First-aid Cabinet</u>	1
9	<u>Paper trimmer</u> Rotary trimming blade, cut length 610 mm. Maximum thickness of cut about 3 mm.	1
10	<u>Drawing board</u> 9 mm to 10 mm thick plywood: A2 (420 mm x 594 mm) A3 (297 mm x 420 mm)	40 40
11	<u>Woodblock cutter</u> heavy duty, 4 shapes in box, with grind stone and baren	40 boxes
12	<u>Lino roller</u> soft rubber, 150 mm	20
13	<u>Staple gun</u> (e.g. Rapid 13 or equivalent)	5
14	<u>Stapler</u> (e.g. Max HD-10 or equivalent)	40
15	<u>Staples remover</u> (e.g. Max R2 or equivalent)	5
16	<u>Clay storage bin with lid</u> water-proof, plastic, min. capacity 35 litres	2
17	<u>Paper cutter</u> with chippable, retractable blade, safety lock and extra blades	40
18	<u>Plastic mug</u> 100 mm diameter	40
19	<u>Saucer</u> enamel or plastic, 100 mm diameter	40
20	<u>Combination pliers</u> 150 mm	2 pairs
21	<u>Pliers</u> <u>Round nose, 150mm</u>	40 pairs
22	<u>Scissors</u> 150 mm, stainless steel	40 pairs
23	<u>Scissors</u> overall length 150 mm, stainless steel blades, for fabric cutting	2 pairs
24	<u>Pinking shears</u> overall length 190 mm	1 pair

Item No	Description	Quantity
25	<u>Palette</u> plastic tray with 6 wells, diameter of well approx. 55 mm	40
26	<u>Drying rack</u> steel, spray painted, 50 tiers with spring action for shelves. Size of wire mesh shelves: 700 mm x 920 mm (approx.). Mesh opening not larger than 200 mm x 200 mm. Overall dimension 740 mm x 940 mm x 1,350 mm (approx.) with 4 rollers (80 mm dia. approx.)	1
27	<u>Ink tray for print making</u>	10
28	<u>Ruler</u> 450 mm, stainless steel	2
29	<u>Cutting mat</u> plastic, 3 layer structure (soft P.V.C. sandwiches hard P.V.C. board) double sided usage, 300 mm x 450 mm, 3 mm thickness	40
30	<u>Bench hook</u> Plastic / Hard wood, 150 mm x 230 mm (approx.)	40
31	<u>Lino dabber</u>	40
32	<u>Teachers' reference books related to Visual Arts</u> a collection of self-chosen books	1
33	<u>Trolley</u> Steel Trolley, with 3 tiers and 4 wheels with casters and brakes. size: 844 mm (W) x 534 mm (D) x 915 mm (H)	1
<u>AUDIO-VISUAL AIDS</u>		
34	<u>Smart TV</u>	1
35	<u>Projection system with screen</u>	1
36	<u>Computer equipment and software for graphic use</u> With software items for: Word processing, graphic, picture and photo processing, presentation, video editing, animation	1
37	<u>Digital video camera</u>	1
38	<u>Printer or printer cum scanner (large)</u>	1 set
39	<u>Printer or printer cum scanner (small)</u>	1
Total Cost for Subject		102,200