

Shireland Collegiate Academy

Number of days since heating installation **77**
 Total cost of heating to date **£395.50**

Average heating cost per day for 3 rooms **£5.14**

Comparable cost for gas heating, based on 45W/m² of energy required to heat same rooms for 24 hours per day at 22°C **£28.79**

Forecast cost of panel heating per day **£9.83**

Saving **82%**

Cost per kWh (pence) **8.5**
 Installation Date **31-Aug**

Outdoor weather conditions	warm	warm / mild	mild	mild	cold	cold	freezing	cold & wet	cold / freezing & wet
Date of reading	24-Sep	03-Oct	12-Oct	23-Oct	30-Oct	31-Oct	05-Nov	12-Nov	16-Nov
No of days for period	24	9	9	11	7	1	5	7	4

Art room (Offices - LH) Current total heating cost for room **£131.81**
 Average cost per day **£1.71**

Reading	151.1	223.5	428.7	635.9	902.7	930.3	1098.5	1354.6	1550.7
Units used (avg per day)	151.1 (6.3)	72.4 (8)	205.2 (22.8)	207.2 (18.8)	266.8 (38.1)	27.6 (27.6)	168.2 (33.6)	256.1 (36.6)	196.1 (49)
Cost for period	£12.84	£6.15	£17.44	£17.61	£22.68	£2.35	£14.30	£21.77	£16.67
Cost per day	£0.54	£0.68	£1.94	£1.60	£3.24	£2.35	£2.86	£3.11	£4.17
Cost per hour	£0.02	£0.03	£0.08	£0.07	£0.13	£0.10	£0.12	£0.13	£0.17

Art room (Darkroom - RH) Current total heating cost for room **£165.89**
 Average cost per day **£2.15**

Reading	304.5	388.6	627.6	873.1	1338.1	1420.7	1560.9	1771.7	1951.6
Units used (avg per day)	304.5 (12.7)	84.1 (9.3)	239 (26.6)	245.5 (22.3)	465 (66.4)	82.6 (82.6)	140.2 (28)	210.8 (30.1)	179.9 (45)
Cost for period	£25.88	£7.15	£20.32	£20.87	£39.53	£7.02	£11.92	£17.92	£15.29
Cost per day	£1.08	£0.79	£2.26	£1.90	£5.65	£7.02	£2.38	£2.56	£3.82
Cost per hour	£0.04	£0.03	£0.09	£0.08	£0.24	£0.29	£0.10	£0.11	£0.16

See note 3

6th form room Current total heating cost for room **£97.80**
 Average cost per day **£1.27**

Reading	83.5	158.5	275.2	399.8	800.8	846.6	917.9	1059.3	1150.6
Units used (avg per day)	93.5 (3.9)	65 (7.2)	116.7 (13)	124.6 (11.3)	401 (57.3)	45.8 (45.8)	71.3 (14.3)	141.4 (20.2)	91.3 (22.8)
Cost for period	£7.95	£5.53	£9.92	£10.59	£34.09	£3.89	£6.06	£12.02	£7.76
Cost per day	£0.33	£0.61	£1.10	£0.96	£4.87	£3.89	£1.21	£1.72	£1.94
Cost per hour	£0.01	£0.03	£0.05	£0.04	£0.20	£0.16	£0.05	£0.07	£0.08

See note 4

Current Programme

5am – 7am = 20 degrees
 7am – 10am = 22 degrees
 10am – 1pm = 22 degrees
 1pm – 3pm = 22 degrees
 3pm – 6pm = 18 degrees
 6pm – 5am = 15 degrees

All weekend is set to 15 degrees



SHIRELAND
 COLLEGIATE ACADEMY



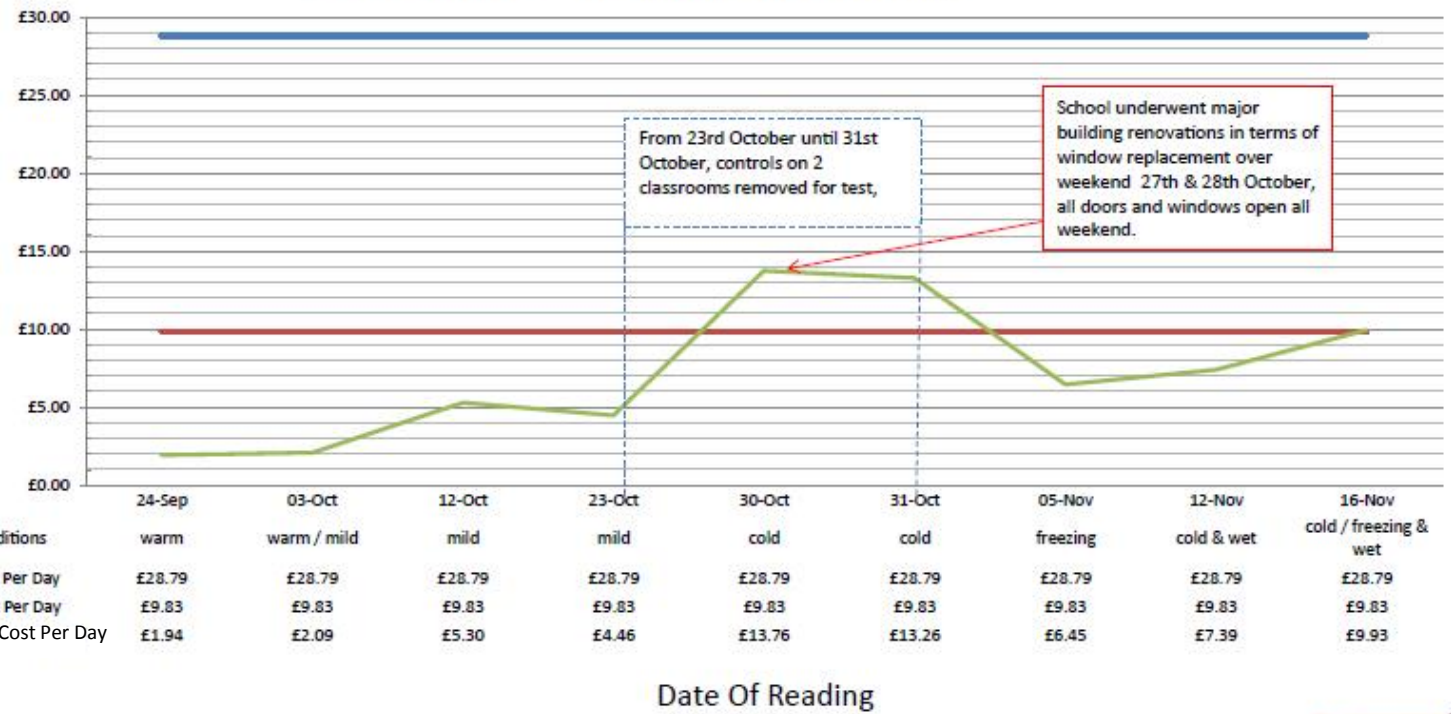
Notes

1. Art room (darkroom) is considered to be the coldest room - no direct sunlight, windows facing quadrant
2. Art room (offices) is the art room used most, facing playground, direct sunlight on windows
3. Heating set to constant 22oc since 23rd October as per Martin's request (darkroom & 6th form)
4. Weekend over 27-28th Oct, windows in 6th form block upstairs (English) replaced with double glazed units, all doors open
5. All rooms returned to controlled heating since 31st October
6. Weekend over 3rd-4th Nov, windows in 6th form block lower (Maths) replaced with double glazed units



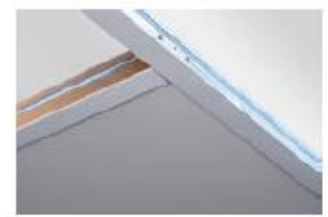
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Heating Cost For 3 Classrooms



Shireland Collegiate Academy
 Waterloo Road
 Smethwick
 West Midlands B66 4ND

Installation:
 Energy saving panel built into the ceiling as well as LED lighting panels. The system is constantly being monitored, showing an 80% saving over gas heating.



3 Classrooms – 12 x 0.43kW panel per room



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