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An economic study of elementary: education in county Durham in the early part of the nineteenth century

Pallister, R.

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### PLANS.

Bishop Auckland Barrington School.

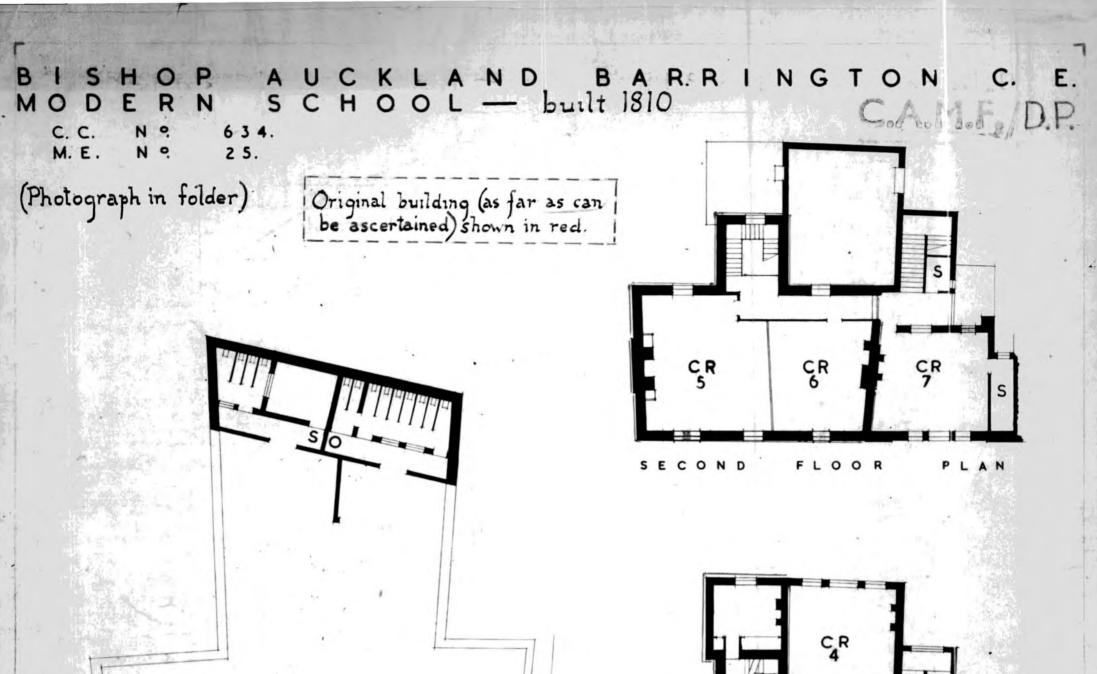
Elwick Hall School.

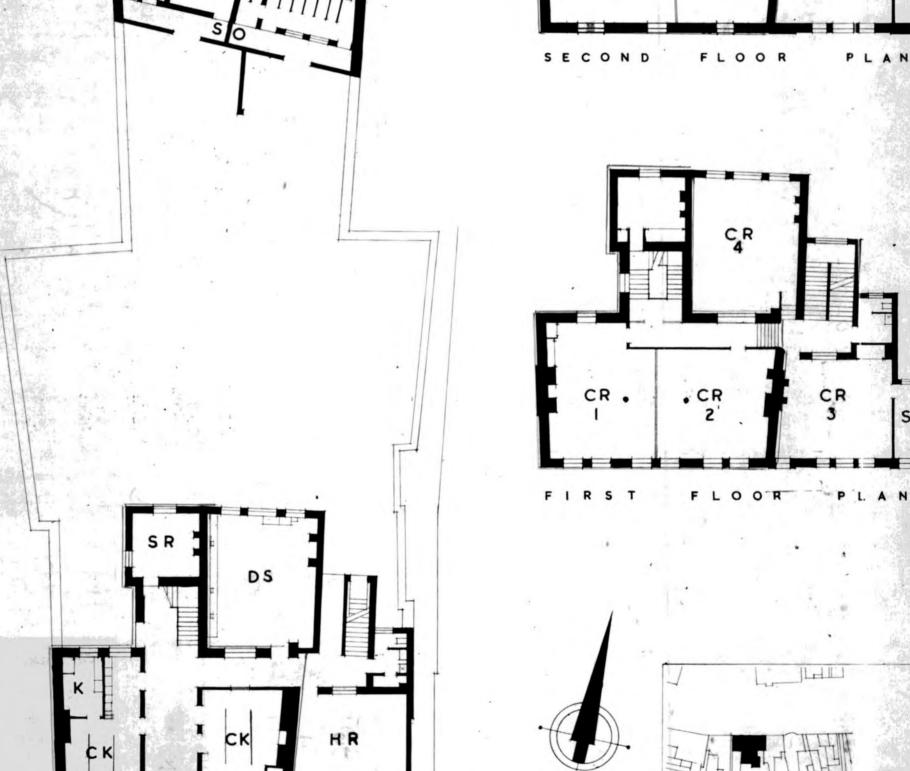
Great Stainton School.

Hart School.

Hartlepool Prissick School.

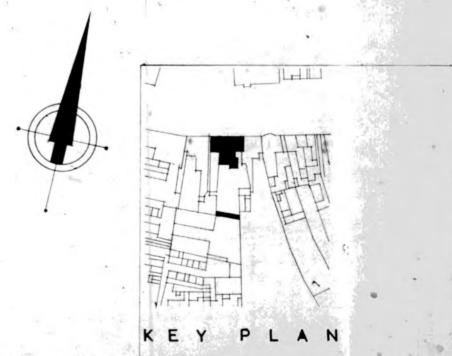
Middridge School.

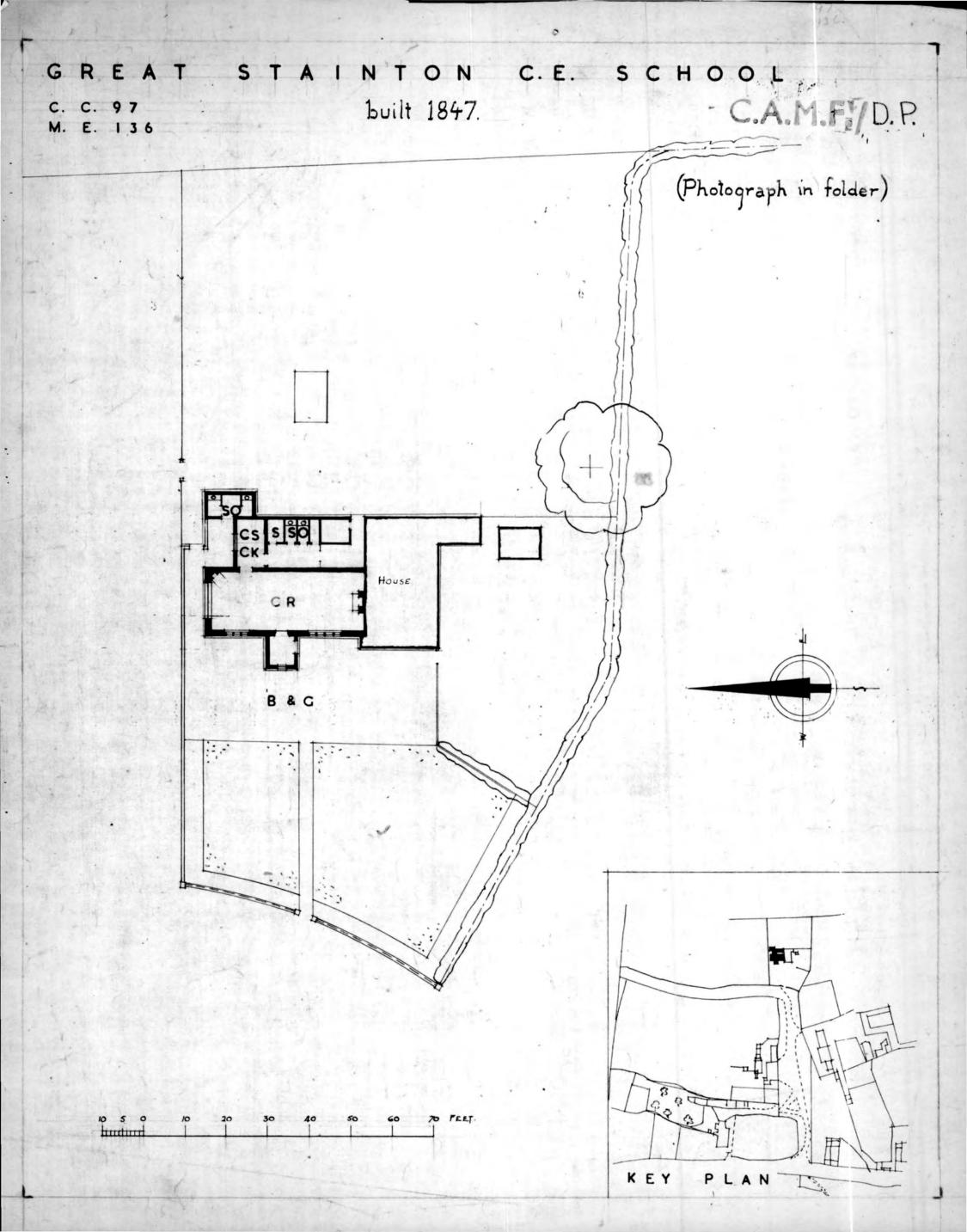


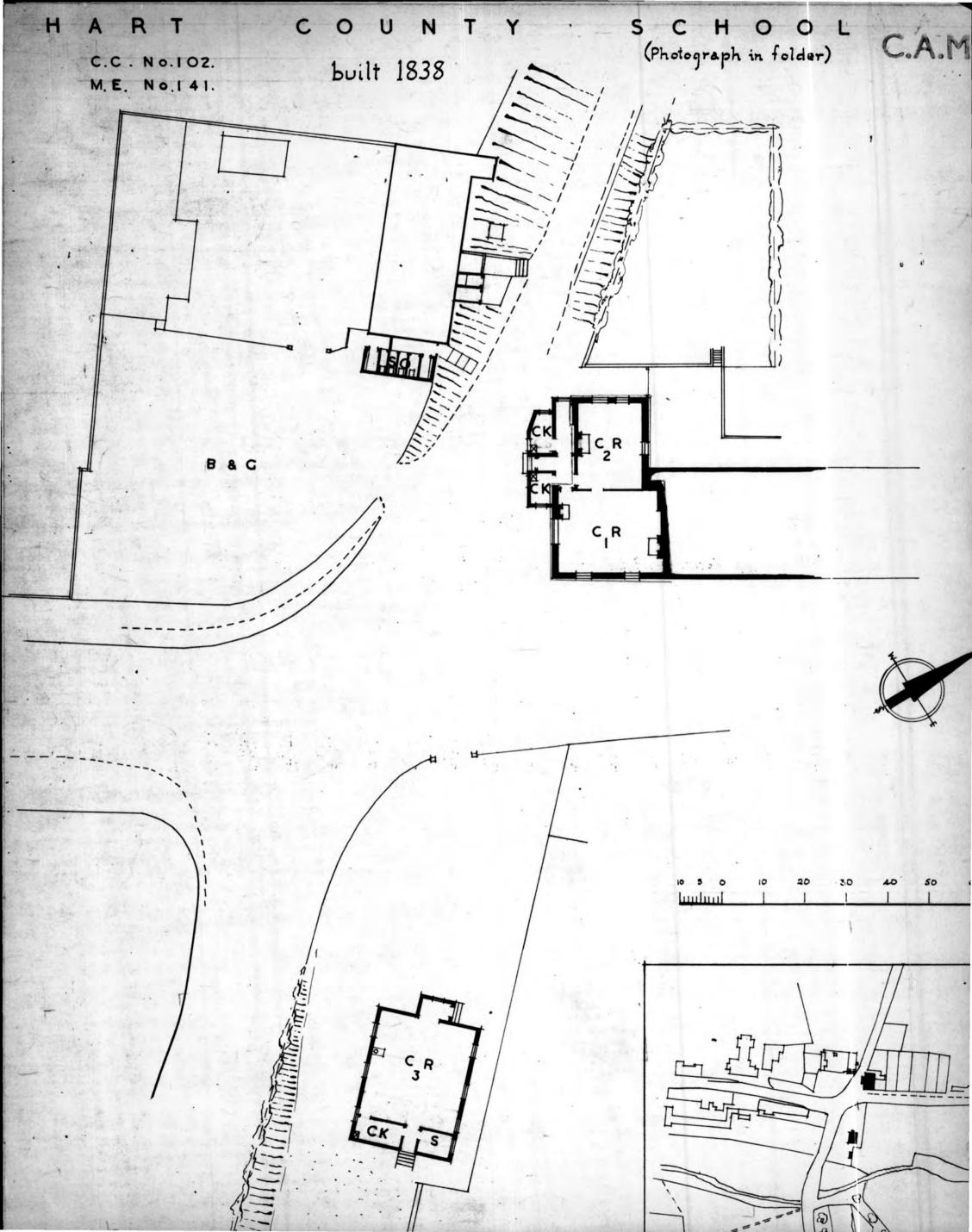


GROUND

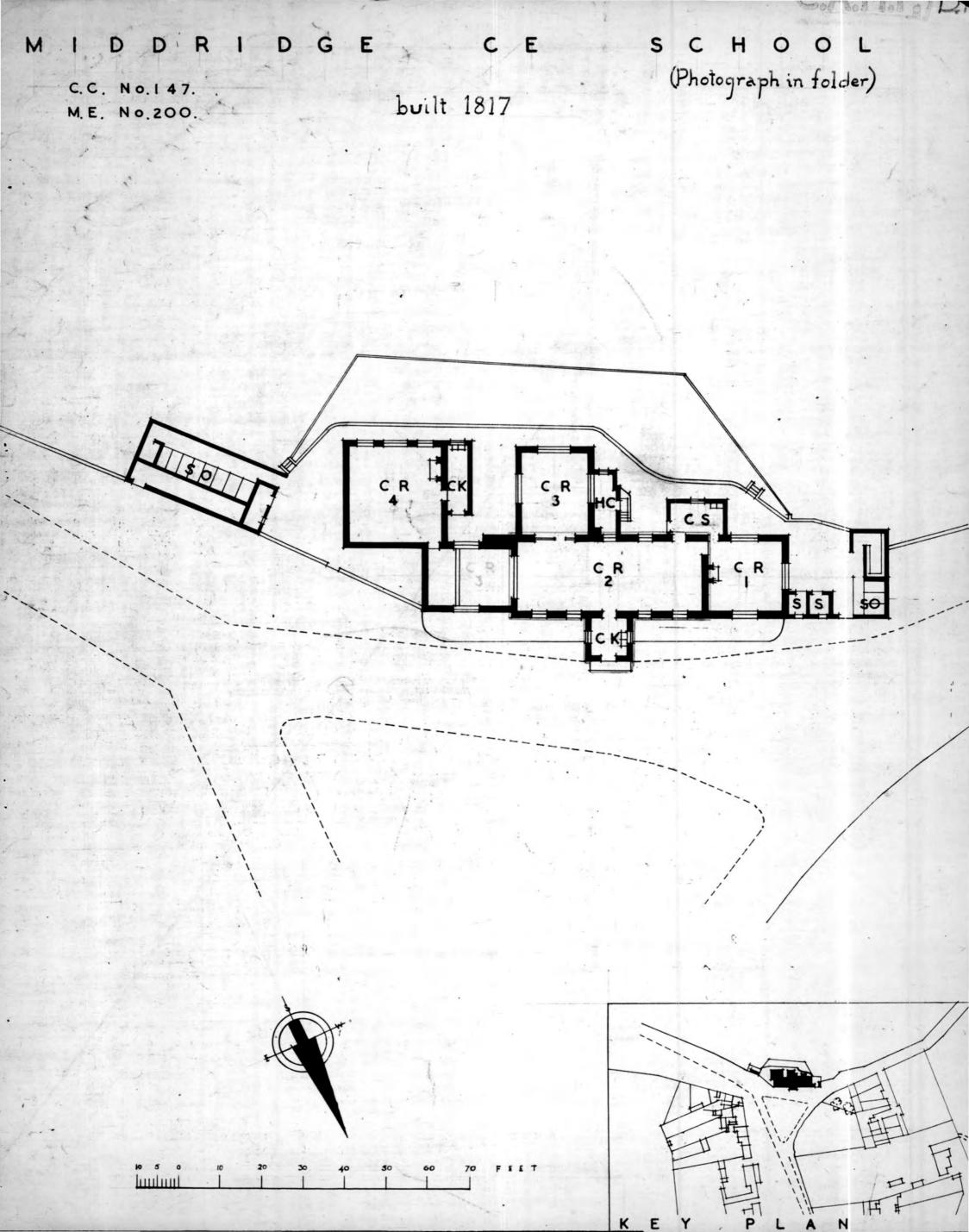
FLOOR







HARTLEPOOL PRISSICK ENDOWED C.E. SCHOOL C.A.M.F./D.P. C. C. No. 323 built 1835



### SCHOOL PLANS AND PHOTOGRAPHS OF SCHOOL WORK.

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Pα	OR.

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- 23 Committee of Council Plan.
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- 25 ....ditto....

# Examples of Work from Copy Books of the Mid 19th Century.

The following points should be noted:

- (a) the meticulous printing,
- (b) no attempt having been made to simplify English terminology.
- (c) the difficult quality of some of the examples,
- (d) the use of rhyme in learning extraction of the Cube Root.

# A Treatise Vractical Alensuration.

Petinitions, Problems, And Theorems, In Geometry.

Recording originally originated the Al of proconvinded the Est, or any distance or dimensions upon or

Tapes are of various lengths; but those of four poles, or twenty livo yards, are most useful. 2. In practice, the dimentions may denorally be common 3. The following tables of lineal, meaned understood by the learner, before he proceeds further. note - Tur yards muste one fathorn; and seven yards one rood of Jeneray or ditching.

# Bart II.

# Rlensuration of Superfices.

The area of any plane figure is its superficial content, or the measurement of its surface, with-

The dimentions of figures are taken in lineal measure. Sometimes they are taken in inches . and tenths; sometimes in feet, tenths, and hundred this; and sometimes in chains and links; and the area of any figure is estimated by the number of square inches, square feet, square chain, &c., contained in that figure.

Note 1. - I measuring tape, (usually called a box and tape) divided into feet and inches on one side, and links on the other, is admirally calculated for taking dimentions.

If the parallel sides of a garden be to sfeet to inches, and 19 feet 3 inches, and their perpendicular distri 945 links; what is its area? 56ft. gin.; what did it cost at \$ 325. 100 per acre? The hipped roof of a square building is flat at the top; the length of the eaves, from hip to hip, is saft. 6 in ; the side of the square at the top is 30ft. 9in ; and the overest distance from the top to the cases, is 18 feet 3 inches: how many, square y ands of stating are estfamed in the four sides of the north

Required the area of the trappoid Il 13600, whose parallel sides Il B and & 6 measure Loft 10 in and 28 ft. Lin.; 56, the perpendic was distance between them. 26 ft. 9in.; and AG 12 ft. 6 in. Here 46ft. 10 in = 46.83333, and 2 18 thin = 24.333 there (46.83333+28.33333) X 26.75 -1.16666 x 2675 = 2010. 708155, half of which is = 1005.3540775 ft. The area required. The parallel sides of a piece of dround measure 856 and 684 links and then perpendicular dis tance 985 links; what is its area : links

2.33800,

13.52000

Theorem ax.

All similar rolids are to each other, as the cubes of their like dimentions. (Em. IV. 24.)

# Un Explanation Of The Vrinciple Realfrematical Characters.

The sign or character= (ralled equality) denotes that
the respective qualities, between which it is
placed, are equal; as 4 poles = 22 yards = 1 chain
= 100 links

The sign(called plus, or onore) + signifies that the numbers, between which it is placed, are to be added bogether; as 9 + 6 (read 9 plus 6) = 15: Theorem Res.

All similar geowers are in proportion to and the squares of their homologous sides. (It 12: 26.6m. IS. 20.)

The circumference of circles, and the a formal in chords of similar regments, are in proportion to each other, as the radii or diameters of the circles (Em J 9. 8 & 9.)

Theorem Avisis.

die diameters, or circumsferences. (Euc. 12. 3.

Theorem Aga.

Similar polygons described in sircles are to each other, as the circles in which they are inscribed; or as the squares of the diameters of those circles. (Com. 29:36.)

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PRACTICE To so called from the general use thereof by all hersons concerned in brade and business. All questions in this rule are performed by taking aliquet or even farts, by which means many tedious reductions are avoid the fable of these aliquet purits is as follows. ile. When, in the following zu les, you are directed to take alique harts that are in a honny remember tha you do not not divide by 4, to de; but by 4, 12, to. Mule 1. Ithen the price is less than a penny, take the aliquot harts that are in a renny; then divide by 12 and 20, it will be the answer. 6 05 4 7 16 34 12 2 65 47 \$ 37 7 3 . 16 1636,94 12/14/0 . /4 26,1.464.2/4 20,9 ,2/4 trower

# Comp Proportion

If 2 men, working 6 days, earn 3. 15 what, sum will 8 men, working 2 Jdays earn?

2:8: 45

 $\frac{2}{24x8x45} = \frac{1350}{1350} = \frac{1350}{100000}$ 

If 15 men can did a trench 120 yardsin in 16 days, what number of yards would 35 men dig in 52 days?

15:35:120

16:52

# Compound. Interest.

Is that which arises both from the principal and Interest; that is when the interest on money becomes due, and not paid, the same interest is allowed on that unpaid interest as was allowed on the principal.

# Barter.

Barter is the eschanging one commodity for another, and informs the traders, so to proportion their goods that neither may sustain loss.

How much tea at & per lb; can I have in barter for sewt 2 quarters of chocolate at is per lb;

. mother Rule for extracting the bule Root. The bute of your first Percod take, Gelskoot a Justient mer he. Which Rootente a tale moust gives; And from your Perior laken fu .. To the Remainder then you must. Bungdown and the Prod just; Which being done there you must see, from Sumber strught devided be; By just the hundled times the syene. Gumes your heetient Seguns was. thech do, so that you in may take the fat your Luction Signer make;

Jost squar? and multiply by the rest.

Ind Thoduck thirty times exprest,

The butie of your last found Figure too,

You must put in it right you do;

Repeat your took and so descered,

From trend to point into the End;

That dome if ought formain there shall,

Itel heble ( your son Decement)

Countiles

# Examples of Reading Material Taken from School Books Published in the Mid-Nineteenth Century

The following points should be noted:

- (a) the morbid plot and sadness in the characters.
- (b) the underlying morality in the stories.
- (c) the religious teaching embodied in the actions and sayings of the persons in the stories.
- (d), the detail poured into the space of one small page in the Geography Book.
- (e) the choice of several words for spelling which have religious connotations e.g. sanctification, solemnization, transfiguration, transubstantiation.

#### SPAIN AND PORTUGAL.

PHYSICAL FACTS.

531. Extent.—Spain, 640 miles long; 530 broad; 179,000 sq. m. PORTUGAL, 360 miles long; 145 broad; 37,000 sq. m. Shape, nearly square.

Spain and Portugal form a peninsula, united to the Continent by an isthmus 230 miles broad. It is often called the Spanish Peninsula.

532. Coast.—Unbroken, except in the N.W.

Considering the great extent of coast, Spain and Portugal are remarkably deficient in good harbours.

533. Capes.—Ortegal, Finisterre, Rocca, the most W. point of Europe; St. Vincent, Trafalgar, Tarifa, most S. point of Europe; Europe Point, Gata, Palos,

564. Istands.—The Balea ric Isles, the chief of which are Majorca, Minorca, and Iviza. Leon.

585. Mountains.—The greater part of the Penin-2,000 feet. Principal mountain ranges: Pyrenees, the highest Maladetta, 11,424 feet; the mts. of Asturies, a continuation of the Pyrenees to the W.; mts. of Castile, the highest Sierra de Gredos, 10,500 ft., continued through Portugal to Cape Roca, and called Serra de Estrella; mts. of Toledo, the highest part Sierra de Guadalupe, 5,100 ft.; Sierra Morena, con-tinued through Portugal to Cape St. Vincent, and called Serra Manchique; Sierra Nevada, of which Mulhacen, 11,660 ft., is the highest int. in Spain.

end; and terre, land. Finisterre means the Bocco, a rock. It is also called the Rock of Listonello (Balka), I throw; the inhabitants having the "Majora, from major, greater. Minorea, from habit are tailed in Spain sierra, and in Portugal

mountains, and is so named because its peaks are which in the S. of Spain is a little below 10,000 feet

The great control table-land is a distinguishing physical feature The great control table-land is a distinguishing physical feature of Sphin. It is far larger than any other in Europe, extending over nearly one half of that kingdom, from the Ebre to the Sierra Morena, and from the E of Portugal to about the same distance from the coast of the Mediterranean. This table-land is not one plain, but several; being intersected by various ranges of mountains.

The Pyrenees have the steep descent on the Spanish side. The valleys, onlike those of the Alps, are transversal; that is, they run across the chain, not longitudinally. There are above 100 passes for mule and foot passengers, but only five good carriage roads: and of these only two are open at all seasons of the year, being at a less elevation than 5,000 feet.

536. Rivers. - Douro, 500 m.; Tagus, 600; Guadiana, 420; Guadalquivir, 320; Ebro, 400; Minho.

diama, 420; Gundalquivir, 320; Ebro, 400; Minho.

537. Spain is not a well-watered country. The rivers are long, but their volume of water is but small. The Douro drains the N of the central table-land, and in its lower course the N of Portugal. As many of its tributaries rise in high mountains, its course is very rapid; and it is subject to heavy swellings on the melting of the snow, or the falling of heavy rains. The Tagus, the largest river of the Peninsula, drains the central part of the table-land between the Castilian mountains and the Sierra de Toledo, and in its lower course Central Portugal. Before it reaches Lisbon its estuary is above 7 miles wide, but contracts to 2 miles at that city. The Guadiana drains the S. of the table-land between Sierra de Toledo and Sierra Morens, and in its lower course the S. of Portugal; forming, in part, the boundary between that country and Spain. At about 30 miles from its source it disappears for 20 miles, and then rises again, and forms two small lakes called Los Ojos de Guadiana. The Guadalquivir drains the district S. of the great table-land, between Sierra Morena and Sierra Nevada. The direction of all the above is that of the mountains, viz., W. or S. W. The Ebro drains the N. B of Spain, in a rapid course. The Minho, in part, forms the N. boundary between Spain and Portugal. The Bidasson divides France and Spain.

The rivers are navigable but to a small part of their course, owing to their rapidity, and being encumbered with rocks and shoals; and owing to their running for the most part in deep channels, are not to a great degree available for irrigation.

538. Climate.—Very dry, except on the N. and

538. Climate .- Very dry, except on the N. and N.W. coasts. The central table-land subject to great extremes of temperature."

From Arabic wady, a river, and the ancient name Anax.
The Great River. From Arabic wady, a river; and al. Kebir, the great.
The eyes of Guadiana
At Madrid, on the great table-land, the winter is much colder than in England; to formometer not unfrequently standing at 14 degrees.
A wind called Gallego, because coming from Gallicia, is very piercing and inju-

122 THE BASKET OF PLOWERS.

of their hearts. In short, he begged them to be father and mother to Mary, who had no longer any parents. Whenever Mary attended divine service at Erlenbrunn, she never failed to visit the tomb. She also went, every Sunday evening, when she had an opportunity, to visit the tomb of her father, and to weep over his cherished remains. "Nowhere," would she say, "have I prayed with so much fervour as here at my father's grave. Here the whole I feel that we world is nothing to me. belong to a better world. My heart sighe for that country, because I daily feel the evil of the one in which I now am." She never left the grave, without having made good resolutions to despise the pleasures of the world, and to live only to her God.





MARY EXPERIENCES FRESH TRIALS.

ROM the time of her father's death, Mary was always sad.

The fearers had, in her eyes, lost all their blacker, and the pines near the farm looked as though they were clothed in black. Time, it is true, moderated her grief, but she soon had new trials to undergo. Great changes new trials to undergo. Great changes had taken place in the Pine Farm, since the death of her father. The farmer had given the farm to his only son, a man of good temper and amiable dis-position, but unhappy in the choice of his wife, whom he had married a short re-tal-i-a-tion Sanc-ti fi cá-tion sig-ni-fi-cá-tion so lem-ni-za-tion su pe-ri-or i-ty Trans-fi gu-rá-tion

42

tran-sub-stan-ti-ú-tion Un-cir-cum-ti-ston un-in-ter rup-ted-ly u-ni-ver sal-i-ty Vul-ne-m-bil-i-ty val o-tu-di-na-ri-an

TABLE XVII. USEFUL FABLES



FABLE I.—OF THE BOY THAT STOLE APPLES,

As old man found a rude boy in one of his trees, stealing apples, and desired him to come down; but the young saucebox told him plainly he would not. Won't you, says the old man, then I will fetch you down; so he pulled up ome tolks of grass, and threw at him; but this only made a young ster laugh, to think the old man should present beat him out of the tree with grass only.

Well, well, says the old man, if neither words not grass will do. I must try what virtue there is in stones; so the old man pelted him heartily with stones, which soon made the young chap hasten down from the tree, and beg the old man's pardon.

MORAL.

If good words and gentle means will not reclaim the wicked, they must be dealt with in a more severe manner.



FABLE IL-OF THE LION AND THE MOUSE.

THERE was a lion that was once very kind to a mouse, and saved his life from the claws of a cat. Some time after this the lion was caught in a net, in such a manner that he lay there struggling till he was half dead.

that he lay there struggling till he was half deads. The mouse, coming by at that time, was very sorry to find the lion in such a condition, and was resolved to use all the means he could to release him.

The lion, seeing the mouse so busy, thanked him for his good will, but told him it was impossible for such a little creature as a mouse to release him out of so strong a net.

Be easy, says the mouse, what strength cannot do art and resolution often effect; you saved my life, and gratitude obliges me to return the favour if I can.

The mouse, therefore, though not capable of breaking the net, yet set about to graw it asunder in several places, which, after great pains, he completed, and set the lion free.

MORAL.

Since no one knows what may befall him, nor who may be a means of serving him, it is the highest wisdom to believe kindly and civily to all mankind. This, indeed, whested he done without any selfish or worldly feeling, and for the love of virtue itself.

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SHORT TALES.

#### THE STRAWBERRIES.

An old soldier, with a wooden leg, came into a village, and was suddenly taken ill. He could not travel any further, and was obliged to lie on some straw in a barn; and it went very hard with him.

The little Agatha, the daughter of a poor basket-maker, felt tender compassion for the sick man, and visited him every day; and every time made him a present of a half-penny. But one day the honest soldier was much distressed, and said, "Dear child, as I have learnt to-day that thy parents are poor, pray tell me candidly where you get so much money? Because I would rather starve than receive a single farthing which you could not give me with a good conveience."

which you could not give me with a good conscience."

"O," said Agatha, "do not be anxious on that account. The money is lawfully obtained. I go to the next market-town to school. The road thither leads through a wood where there are plenty of wild strawberries; so I gather my little basket full every time, sell them in the town, and receive a half-penny. My parents know the whole matter well, and have nothing against it. They often say, that there are many people poorer than we are, and so we must do them as much good as our circumstances will permit."

The bright tears stood in the eyes of the old soldier, and trickled down his beard. "Good child," he said, "God will bless you and your parents for your benerolent disposition."

The poorest may, with willing heart, Perform a kind and loving part. SHORT TALES.

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#### PART THE SECOND.

Sometimeafter a distinguished officer, who woremany orders, was passing through the village, and drew up his magnificent carriage before the inn to let his horses feed; who, hearing of the sick soldier, went to visit him.

The old soldier immediately told him of his benefactress. "What!" exclaimed the officer, "has a poor child done so much for you? Then, I, your old general, can be allowed to do nothing less. I shall make arrangements at once that they provide for you the best in the inn."

He did so, and then went to the cottage of little Agatha. "Good child," he said, deeply moved, "your benevolence has made my heart warm and my eyes wet. You have given the old soldier many coppercions, here you have instead of them as many gold

"Ah," said the astenished parents, "that is too much." But the general said, "No, no, this is only a poor reward, the good child has a better one to expect in heaven."

The friendly acts of holy love. Have their rewards here and above. SUBSCRIPTION TO THE ESTABLISHED CHURCH MADE BY A PROSPECTIVE PAROCHIAL SCHOOL TEACHER.

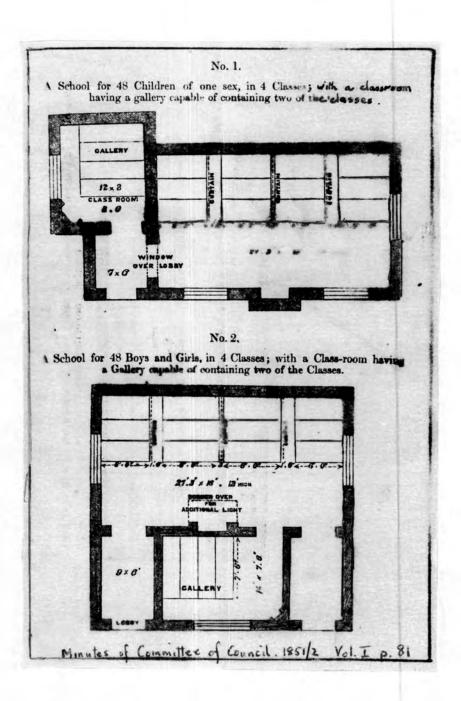
I William Compston of Witton Gilbert in the county and Diocese of Durham # # Schoolmaster now to be lieenced to teach the Parochine School of Willon Gilbert aforesaid do willingly and freely subscribe to the first and thind Untieles and all things contained hierein and to the live first Chauses of the second luticle and all things therein confounced And I do declare that I will conform to the Liturgy of the Church of England asitis now by Law established (IS We hiess my hand this twenty jourth day of June 1837

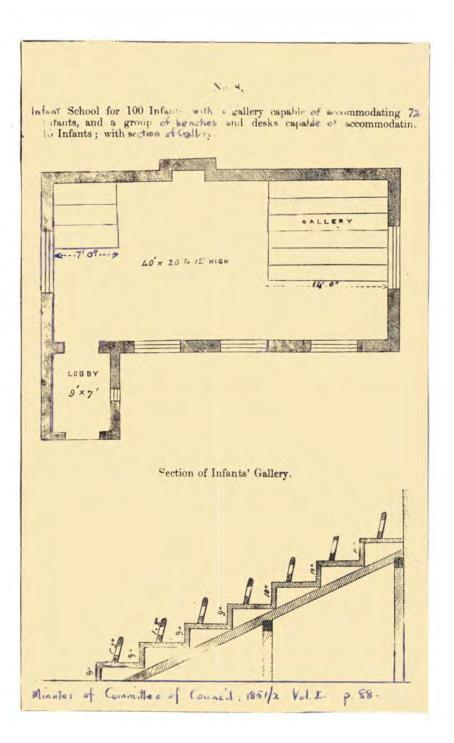
William Compston was duly

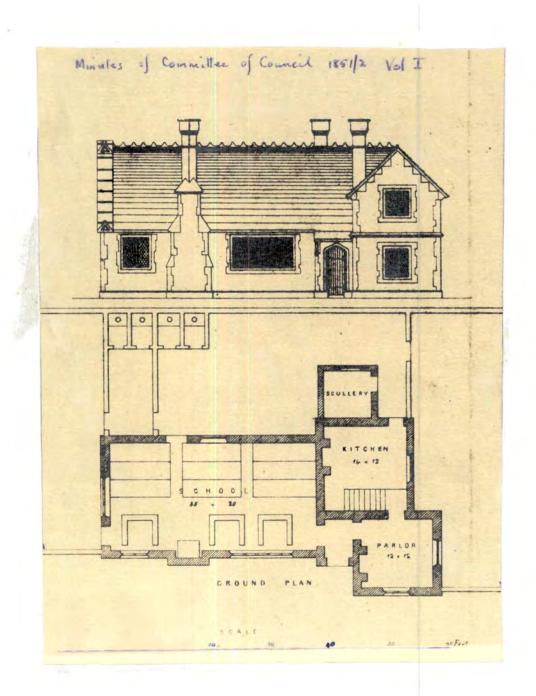
Before me

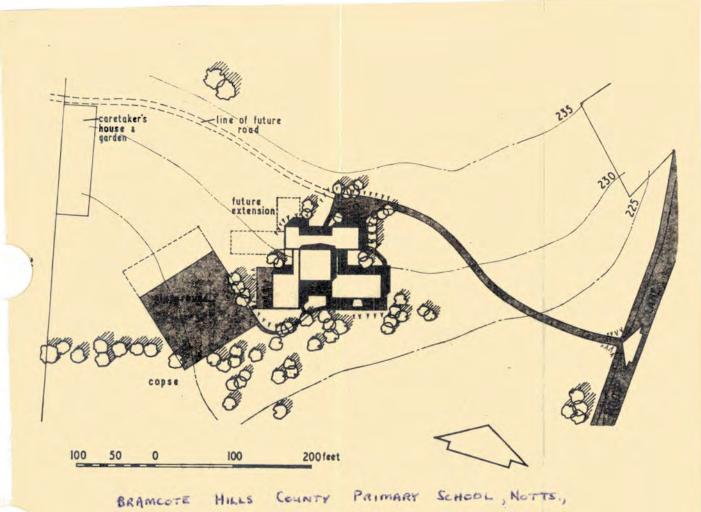
James Raine Jurr. SCHOOL PLANS ISSUED BY THE COMMITTEE OF COUNCIL ON EDUCATION

For comparison purposes a plan of a modern primary school is added.



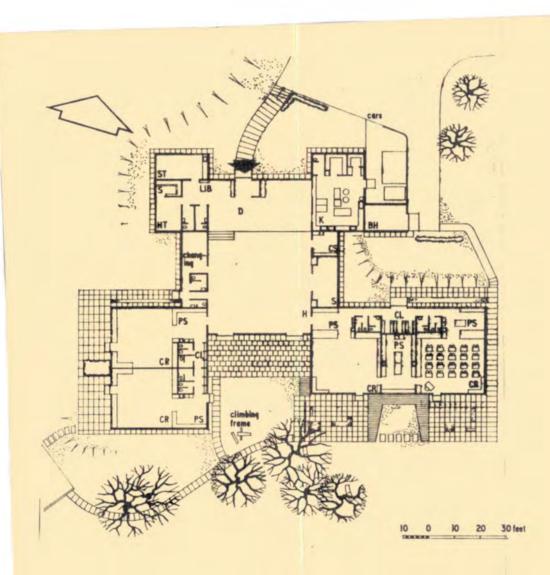






ERAMCOTE HILLS COUNTY PRIMARY SCHOOL, NOTTS.,
[Ministry of Education Building Bulletin . No. 23 p. 30]

Date of Tender: July 1959.



BRAMCOTE HILLS COUNTY PRIMARY SCHOOL, NOTTS.,
[Ministry of Education Boulding Bulletin Ro. 23. Page 33]

Date of Tender: June 1959

# PHOTOGRAPHS OF 19th CENTURY DURHAM SCHOOLS.

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- 3 & 4. Cornsay. Russell's Almshouses and School.
  - 5. Coundon National School.
  - 6. Durham St. Cuthbert's R.C. School.
  - 7. Durham St. Oswald's School House.
  - 8. Elwick Hall School.
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  - 11. Framwellgate Moor Schoolroom.
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  - 13. Great Stainton National School.
  - 14. Hart School.
  - 15. Heighington National Endowed School.
  - 16. Middridge School.
  - 17. Private School.
  - 18. Private School.
  - 19. South Church British School.

## BISHOP AUCKLAND BARRINGTON SCHOOL.

Opened 26th. May 1810. Cost £2,250.

The right-hand part was added in 1929.

Situated in Bishop Auckland Market Place.



# 2 CORNFORTH SCHOOLS FOR GIRLS.

Opened c. 1850.

Provided and supported by Mr. C. Garthorne and Mrs. Surtees. Situated in Cornforth Village



Built by the trustees of the will of William Russell of Brancepeth Castle in 1811.

School held in centre building.

Small rooms adjoining used as almshouses - 6 women on one side, 6men on the other.

Situated 1 mile out of Cornsay Village.

Now known as Greenacres Naturist Camp.







Built 1841 to accommodate 522 children.
Adjacent to the church.



6 DURHAM ST. CUTHBERT'S R.C. SCHOOL.

Built c. 1842.

Situated in Old Elvet, Durham City.



School and house built 1845. Situated in Church Street.



ELWICK HALL SCHOOL.

Built 1851.

8

Supported by the rector and pupils' fees.



Built 1860 by Messrs. H Stobart and Co., coalowners. Situated at Three Lane Ends.



## 10

### ETHERLEY SCHOOL.

Built 1833.

The original building has been enlarged several times.

Supported by H. Stobart, coalowner, who lived at Etherley
House.



Date unknown.



# 12 GREATHAM BARRINGTON SCHOOL.

Built 1831.

Inscription to Barrington above the door.



Built 1847.

Cost £245, of which £54 was obtained from the Committee of Council.



14 HART SCHOOL.

Built 1838 by the Duke of Cleveland. Enlarged 1873.



Original building 1812.

Adjoins the Church.

Supported by the Elizabeth Jennison Charity dated 1601.



# MIDDRIDGE SCHOOL.

Built c. 1820.

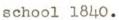
Wings added later.

Bishop Barrington, the Weardale Iron Co., and the Earl of Eldon subscribed.



18

Buildings in South Street, Durham City, used as a private





PRIVATE SCHOOL.

Building in Crossgate, Durham City used as a private school 1840.



Built 1862 by Messrs. Joseph Pease and Partners, coalowners. Made of white brick from the Pease brickworks.

