

ANSWER SHEET: You must fill in this sheet as you go. Take it to the organiser *ONLY* when *ALL* the answers have been completed. When time is up, hand it in anyway. *ONLY* what is on this sheet will score.

School Name:

4-digit Passcode	Institution Name

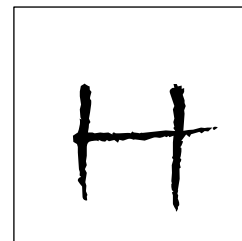
Write out the decoded clues here in the correct order:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Write the answer using the six letters here:

CLUE SHEET

Coded clue: GUR YBPHF



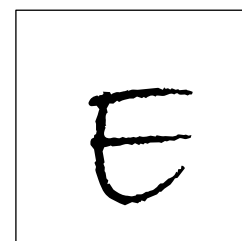
The offset for **decoding** is the solution to this equation:

$$7x - 15 = 11 + 5x$$

[illegible][illegible]

CLUE SHEET

Coded clue: RI D SRLQW



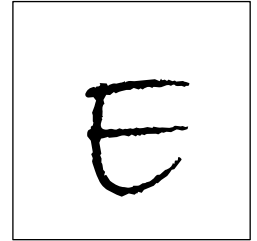
The offset for **decoding** is the solution to this equation:

$$4^{5-x} = 16$$

[illegible][illegible]

CLUE SHEET

Coded clue: MYCQLQABIVB BW



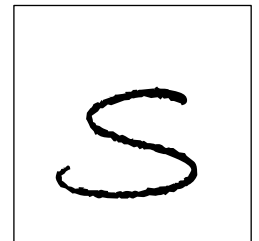
The offset for decoding is the solution to this equation:

$$x^2 - 10x + 70 = 6(x + 1)$$

[illegible][illegible]

CLUE SHEET

Coded clue: K PSHON ZYSXD



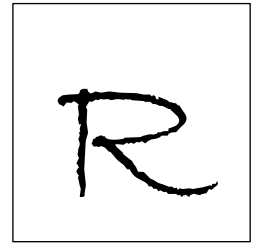
The offset for **decoding** is the solution to this equation:

$$2700x - 4361 = 1700x + 5639$$

[illegible][illegible]

CLUE SHEET

Coded clue: ZE KYIVV



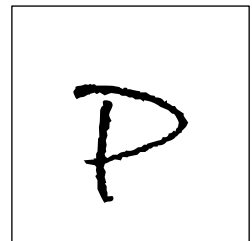
The offset for decoding is the solution to this:

$V = IR$ if $V = 323$ and $I = 19$ use R

[illegible][illegible]

CLUE SHEET

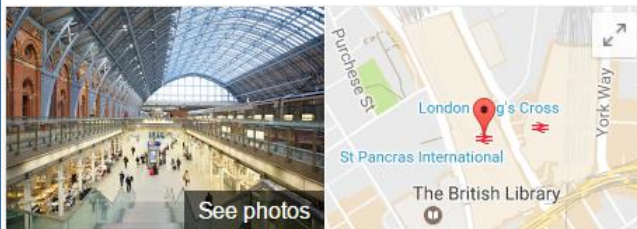
Coded clue: ZEIAJOEKJWH OLWYA



The offset for **decoding** is the solution to this equation:

$$4(x - 8) = 7(x - 14)$$

[illegible][illegible]



St Pancras railway station ★

4.2 ★★★★★ 522 Google reviews

£££ - Railway station in London, England

Website

Directions

St Pancras railway station, also known as London St Pancras and since 2007 as St Pancras International, is a central London railway terminus located on Euston Road in the London Borough of Camden. [Wikipedia](#)

Address: Euston Rd, Kings Cross, London N1C 4QP

Construction started: 1868

Architectural style: Gothic Revival architecture

Phone: 020 7843 7688

Architects: George Gilbert Scott, William Henry Barlow



Sadiq Khan

Mayor of London



Sadiq Aman Khan PC is a British politician and the current Mayor of London since 2016. He was the Member of Parliament for Tooting from 2005 to 2016. [Wikipedia](#)

Born: 8 October 1970 (age 46), Tooting

Spouse: Saadiya Khan (m. 1994)

Party: Labour Party

Previous offices: Shadow Minister (London), more

Children: Anisah Khan, Ammarah Khan

Education: University of Law (1993), University of North London (1992)

Imperial College
London

See photos



Imperial College London ★

Public university in London, England

Website

Directions

Imperial College London is a public research university located in London, United Kingdom. Its founder, Prince Albert, envisioned an area comprising the Victoria and Albert Museum, Natural History ... [Wikipedia](#)

Address: Kensington, London SW7 2AZ

Motto: SCIENTIA IMPERII DECUS ET TUTAMEN

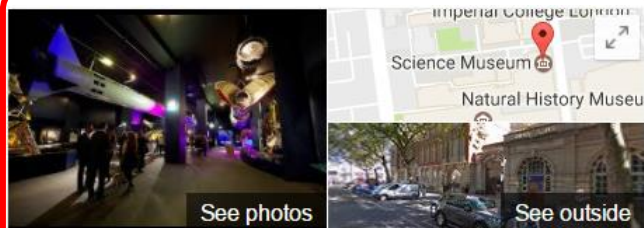
Acceptance rate: 14.3% (2015)

Phone: 020 7589 5111

Undergraduate tuition and fees: Local tuition: 9,250 GBP (2017)

Total enrollment: 16,610 (2015)

Subsidiaries: Imperial College Business School, more



Science Museum, London ★

4.5 ★★★★★ 5,239 Google reviews

Museum in London, England

Website

Directions

The Science Museum is a major museum on Exhibition Road in South Kensington, London. It was founded in 1857 and today is one of the city's major tourist attractions, attracting 3.3 million visitors annually. [Wikipedia](#)

Address: Exhibition Rd, Kensington, London SW7 2DD

Hours: Open today · 10am–6pm ▼

Phone: 0870 870 4868

Director: Ian Blatchford

Founded: 1857

Architect: Richard Allison

Parent organization: Science Museum Group

Lloyd's of
London

Insurance company



LLOYD'S

lloyds.com

Lloyd's of London, generally known simply as Lloyd's, is an insurance market located in London's primary financial district, the City of London. Unlike most of its competitors in the industry, it is not an insurance company. [Wikipedia](#)

CEO: Inga Beale (Jan 2014–)

Headquarters: London, EC3, United Kingdom

Founded: 1686

Parent organization: The Society of Lloyd's

Founders: John Julius Angerstein, Edward Lloyd

Subsidiaries: Lloyd's Syndicate - 6125 (Pembroke Managing Agency Limited), more



St Thomas' Hospital ★

4.2 ★★★★★ 278 Google reviews

Hospital in London, England

Website

Directions

St Thomas' Hospital is a large NHS teaching hospital in Central London, England. It is one of the institutions that comprise the King's Health Partners, an academic health science centre. [Wikipedia](#)

Address: Westminster Bridge Rd, Lambeth, London SE1 7EH

Phone: 020 7188 7188

Hours: Open today · Open 24 hours ▼

Number of beds: 840

Founded: 1100

$$12x + 17 = 4x + 89$$

$$x^2 - 104 = -100$$

$$2^{x+1} = 64$$

$$139 = 138x + 139$$



$$x + 1 = 413^0$$

$$6x - 36 = 2x - 4$$

$$x^2 - 12 = 37$$

$$117x - 209 = 59x - 209$$



$$10x + 2 = x^2 - 4x + 51$$

$$88x - 19 = 27x + 42$$

$$6x - 17 = 31$$

$$3^{x-4} = 81$$



$$23x + 19 = 15x + 67$$

$$x^2 + 2014 = 2015$$

$$5^{x+1} = 125$$

$$345 = 18x + 255$$



$$x = 4019^0$$

$$11x - 23 = 6x + 22$$

$$117x - 105 = 115x - 87$$

$$x^2 - 12 = 4$$



$$15x + 8 = 7x + 64$$

$$(x - 8)^2 + 31 = 31$$

$$6^{x-2} = 36$$

$$14x - 9 = 5x + 18$$

YOU MUST READ THIS!

- You must collect 6 different strips, each with 4 equations.
- If you have any swaps at or on your table you will get a penalty deducted for each one.
- Each strip identifies one institution.
- Send your runner with the number and institution written down to show at that institution.
- If you are correct then the staff at that institution will give you a clue sheet. (A penalty if you are wrong!)
- The clue sheets need decoding to give parts of one big clue.
- Solve it and take your COMPLETE answer sheet to the organiser.