

# Cybersecurity for Humans

**Victoria Baines, IT Livery Company Professor of IT**















hardware

software

firmware

malware

ransomware

adware

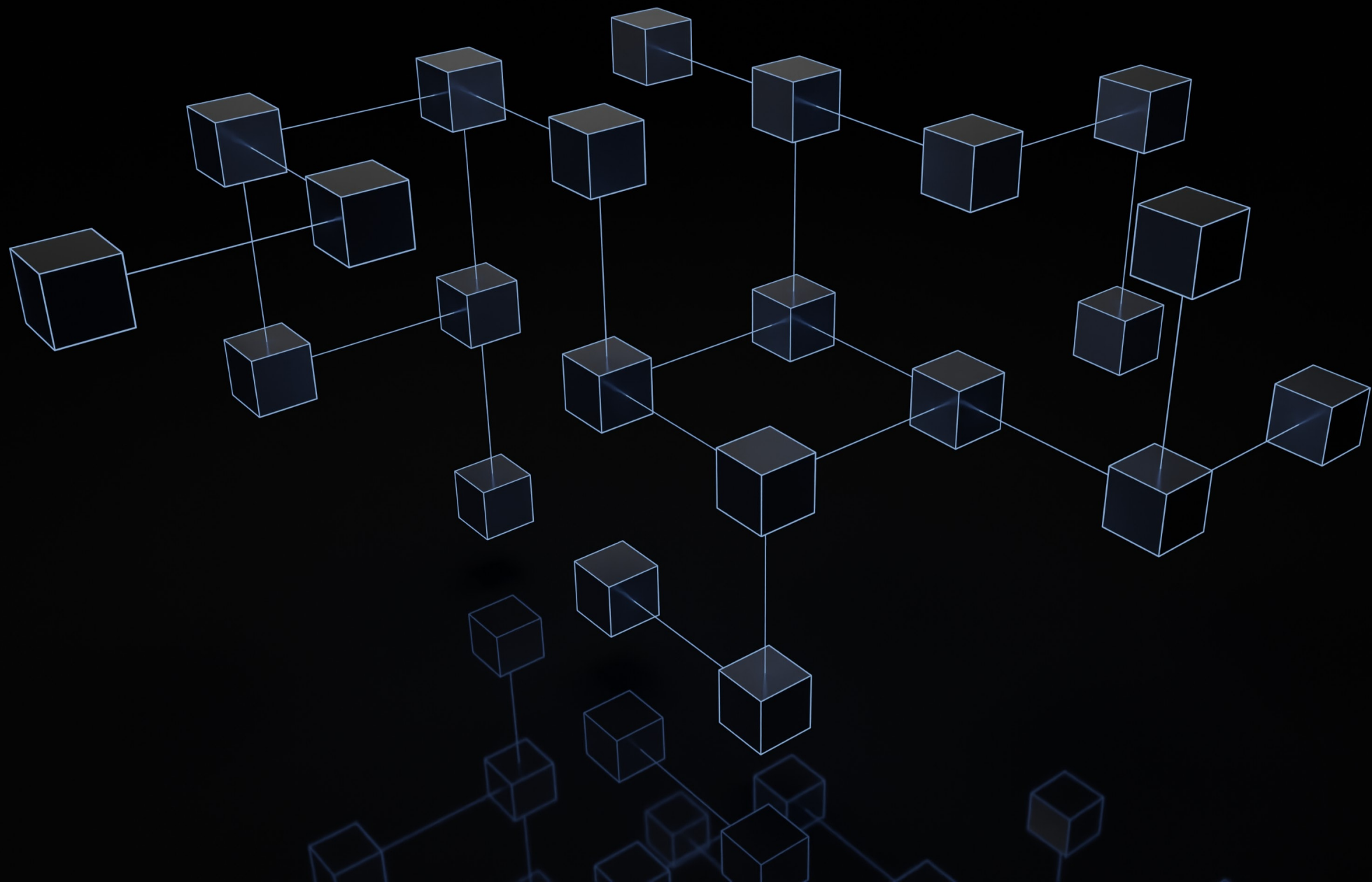
malvertising

stalkerware

scareware

phone freaks  
phreaking  
pharming  
phishing  
smishing  
vishing  
spear-phishing  
whaling







You Click  
On  
Malware

Your  
Computer  
Infected

Attacks  
Other  
Computers





You Click  
On  
Malware

→

Your  
Computer  
Infected

→

Attacks  
Other  
Computers













Tinder

To: Victoria Baines >

03:49

@fernley.com

It's a Match!



It's a Match!

FIND OUT WHO

**Tip:** Turn on push notifications

Turn on push notifications to see your new matches immediately.



Follow us



dmlife.synology.me

[http://dmlife.synology.me/wordpress/turinku.php?utm\\_campaign=skdvuhfzgbn](http://dmlife.synology.me/wordpress/turinku.php?utm_campaign=skdvuhfzgbn)

[REDACTED], please confirm  
receipt #85337926



***Congratulations, dear customer Tesco***

Your email address has been selected today to receive  
a Tesco gift

**Your account information:**

client :



Email :

Gift:

**Surprise**

**YOUR GIFT**

643 N. 98<sup>th</sup> street suite,,#  
155, Omaha, NE, 68130

Don't miss this opportunity

[unsubscribe](#)

If you have previously registered for this newsletter and wish to unsubscribe, please click [here](#)

Or write to: 643 N. 98th street suite,,# 155, Omaha, NE, 68130





From: **Gong Wang** >

Today at 08:26



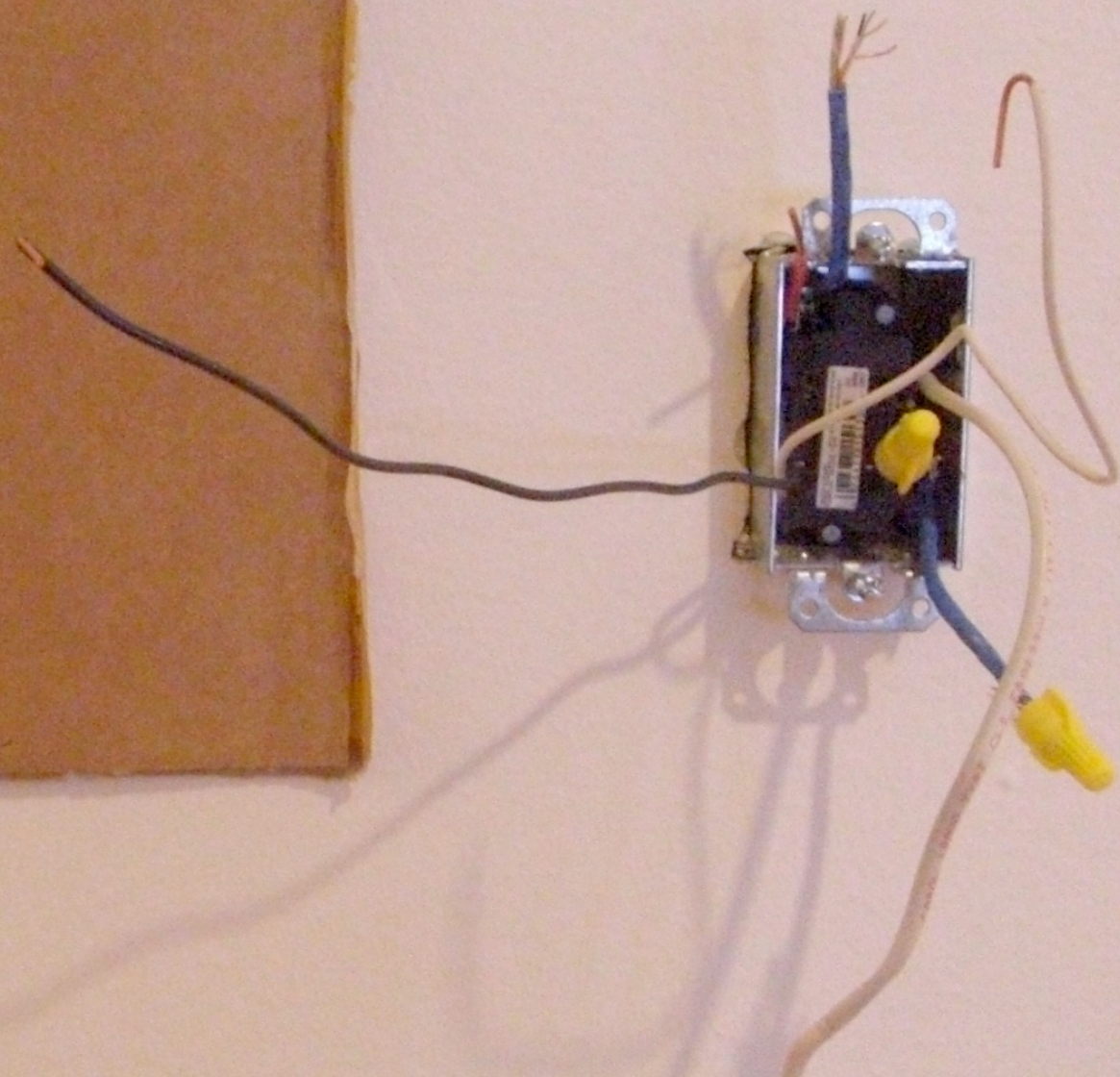
**Hello**

I am writing to you with a 100% legitimate business proposition that is worth your time and consideration.

This proposition could be of immense value to you and I would like to discuss it with you in detail.



PLEASE  
DO NOT  
Touch





## HMRC Tax Notification- Refund


 This message was identified as junk. [It's not junk](#)



HM Revenue <mg@mg.shuttersplusfl.com>

To:  Victoria Baines



HMRC Tax Notification- Refu...   
Outlook Item

External Email: Use caution when responding, opening attachments, or clicking links.

Text Message

Today 19:19

HMRC Refund: You have an outstanding Tax refund of £276.74 from 2020 to 2021. Follow instructions to claim your Tax refund at: <https://gov-tax.refundpr.com/>



Text Message  
Today 13:55

Hi mum phones damaged,using  
a friends so please message my  
new number on WhatsApp when  
you get this xx [07756087270](https://wa.me/07756087270)



**禁止觸摸**

**DO NOT TOUCH**











## Microsoft account unusual signin activity



Microsoft account team <no-reply@accounts-security.com>

To: You

no-reply@accounts-security.com

Microsoft account

# Unusual sign.in activity

We detected something unusual about a recent sign-in to the Microsoft account [REDACTED]

### Sign-in details

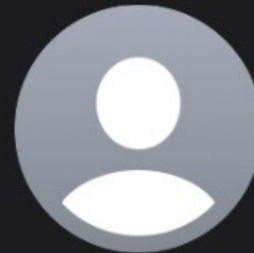
Country/region: **Russia/Moscow**

IP address: **103.225.77.255**

Date: **Thu, 27 Apr 2023 00:39:13 +0000**

Platform: **Windows 10**

Browser: **Firefox**



alert-team@hotmail.com

A user from **Russia/Moscow** just logged into your account from a new device. If this wasn't you, please report the user. If this was you, we'll trust similar activity in the future.

[Report The User](#)

To opt out or change where you receive security notifications, [click here](#).

Thanks,  
The Microsoft account team

# YOUR COMPUTER AND FILES ARE ENCRYPTED

**\$125 WITHIN 24 HOURS. \$199 AFTER 24 HOURS**

**OPERATING SYSTEM AND FILES DELETED AFTER 72 HOURS**

-----WRITE THIS INFORMATION DOWN-----

Email: [supportfile@yandex.com](mailto:supportfile@yandex.com)

The same information is on your desktop called

Payment\_Instructions

Ransom Id: 6754844

BTC Address: 1HxkJ3vz2tvpchGdt9yyY4XivdY9jKkcZH

IF YOU LOOSE THIS INFO YOU WILL NOT BE ABLE TO CONTACT US

-----WRITE THIS INFORMATION DOWN-----

Your computer files have been crypted and moved to a hidden encrypted partition on your computer.

Without the decryption password you will not get them back.

No matter what you do the files will not re-appear and be decrypted until you pay.

Once payment is received you will get the decryption password and simple instructions to restore all your files and computer to normal instantly. Email us if you need assistance or have paid.

Email: [supportfile@yandex.com](mailto:supportfile@yandex.com)

DO NOT LOOSE THE CONTACT INFO



# YOUR COMPUTER HAS BEEN LOCKED!

This operating system is locked due to the violation of the federal laws of the United States of America! (Article 1, Section 8, Clause 8; Article 202; Article 210 of the Criminal Code of U.S.A. provides for a deprivation of liberty for four to twelve years.)

Following violations were detected:

Your IP address was used to visit websites containing pornography, child pornography, zoophilia and child abuse. Your computer also contains video files with pornographic content, elements of violence and child pornography! Spam-messages with terrorist motives were also sent from your computer.

This computer lock is aimed to stop your illegal activity.

**To unlock the computer you are obliged to pay a fine of \$200.**

You have 72 hours to pay the fine, otherwise you will be arrested.

You must pay the fine through

To pay the fine, you should enter the digits resulting code, which is located on the back of your in the payment form and press OK (if you have several codes, enter them one after the other and press OK).



OK





**Cheshire**  
Constabulary

BE SAFE. FEEL SAFE



**PCEU**

Police Central e-crime Unit



**Serios Organised Crime Agency**

**METROPOLITAN BRITISH POLICE**



**METROPOLITAN  
POLICE**

Remaining time: **47:59:14**



**IP:**

Country: **GB Great Britain**

Region: **Gloucestershire**

City: **Gloucester**

ISP: **Fast Hosts LTD**

Operating System:

User Name:



### **ATTENTION!**

**Your computer has been blocked up for safety reasons listed below.**

You are accused of viewing/storage and/or dissemination of banned pornography (child pornography/zoophilia/rape etc). You have violated World Declaration on non-proliferation of child pornography. You are accused of committing the crime envisaged by Article 161 of the Kingdom of Great Britain criminal law.

Voucher NO/PIN

Value

1

2

3

4

5

6

7

8

9

0

Pay Ukash

Pay PaySafeCard

### **Where can I get Ukash?**

You could buy Ukash in many places, for example: shops, stalls, stand-alone terminals, on-line or through E-Wallet (electronic cash), from ePay, PayPoint and PayZone outlets.



Click on  
Malware

Files  
Locked

Pay a  
Ransom

Targets  
Others



```
graph LR; A[Click on Malware] --> B[Files Locked]; B --> C[Pay a Ransom]; C --> D[Targets Others];
```

Click on  
Malware

Files  
Locked

Pay a  
Ransom

Targets  
Others





Windows Security



Windows Security

Threats found

Microsoft Defender Antivirus found threats. Get details.

Dismiss



ENG  
UK



11:37  
21/01/2022









```
graph LR; A[Click on Malware] --> B[Files Locked]; B --> C[Pay a Ransom]; C --> D[Targets Others];
```

Click on  
Malware

Files  
Locked

Pay a  
Ransom

Targets  
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# YOUR COMPUTER AND FILES ARE ENCRYPTED

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Payment\_Instructions

Ransom Id: 6754844

BTC Address: 1HxkJ3vz2tvpchGdt9yyY4XivdY9jKkcZH

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Your computer files have been crypted and moved to a hidden encrypted partition on your computer.

Without the decryption password you will not get them back.

No matter what you do the files will not re-appear and be decrypted until you pay.

Once payment is received you will get the decryption password and simple instructions to restore all your files and computer to normal instantly. Email us if you need assistance or have paid.

Email: [supportfile@yandex.com](mailto:supportfile@yandex.com)

DO NOT LOOSE THE CONTACT INFO





**NEED HELP**  
unlocking your digital  
life without paying  
your attackers\*?

YES

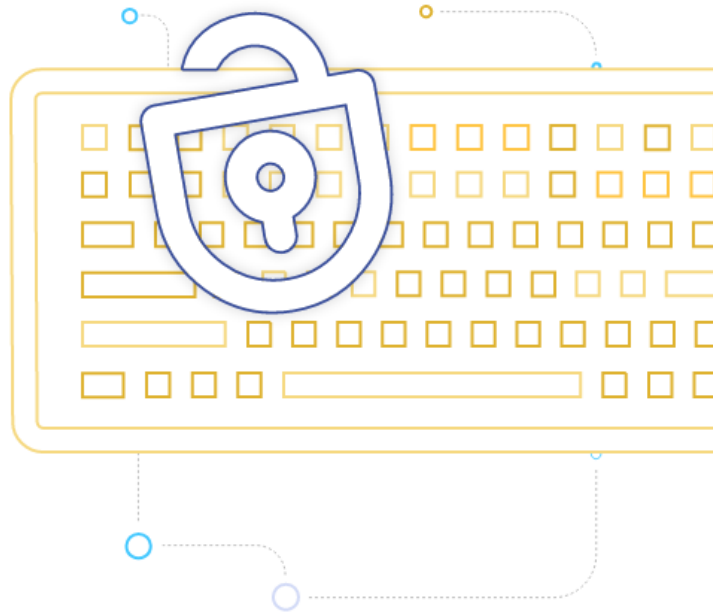
NO

At the moment, not every type of ransomware has a solution. Keep checking this website as new keys and applications are added when available.

Home

Crypto Sheriff

Ransomware: Q&A



**Decryption  
Tools**







Password  
Leaked

```
graph LR; A[Password Leaked] --> B[Bank & Wallets]; A --> C[Email & Social]; A --> D[Work Network]; B --> E[Money Stolen]; C --> F[Contacts Targeted]; D --> G[Unauthorised Access]
```

The diagram is set against a background of a computer keyboard. It features a central column of three yellow boxes: 'Bank & Wallets', 'Email & Social', and 'Work Network'. To the left of this column is a grey box labeled 'Password Leaked', with a grey arrow pointing to the 'Email & Social' box. To the right of the yellow boxes are three red boxes: 'Money Stolen' (connected to 'Bank & Wallets'), 'Contacts Targeted' (connected to 'Email & Social'), and 'Unauthorised Access' (connected to 'Work Network'). All arrows point from left to right.

Bank &  
Wallets

Money  
Stolen

Email &  
Social

Contacts  
Targeted

Work  
Network

Unauthorised  
Access









Welcome  
please  
Come In



P@ssw0rd

Qwerty123456

Fluffy1966





Password  
Leaked

```
graph LR; A[Password Leaked] --> B[Bank & Wallets]; A --> C[Email & Social]; A --> D[Work Network]; B --> E[Money Stolen]; C --> F[Contacts Targeted]; D --> G[Unauthorised Access];
```

The diagram illustrates the consequences of a password leak. It starts with a grey box labeled 'Password Leaked' on the left. A vertical yellow bar separates this from a column of three yellow boxes: 'Bank & Wallets', 'Email & Social', and 'Work Network'. Arrows point from the 'Password Leaked' box to each of these three boxes. From each of these yellow boxes, an arrow points to a red box on the right: 'Money Stolen' from 'Bank & Wallets', 'Contacts Targeted' from 'Email & Social', and 'Unauthorised Access' from 'Work Network'. The background is a blurred image of a computer keyboard.

Bank &  
Wallets

Money  
Stolen

Email &  
Social

Contacts  
Targeted

Work  
Network

Unauthorised  
Access



# ';--have i been pwned?

Check if your email or phone is in a data breach

pwned?

Oh no — pwned!

Pwned in 12 [data breaches](#) and found no [pastes](#) ([subscribe](#) to search sensitive breaches)



## 3 Steps to better security



**Step 1** Protect yourself using 1Password to generate and save strong passwords for each website.



**Step 2** Enable 2 factor authentication and store the codes inside your 1Password account.



**Step 3** [Subscribe](#) to notifications for any other breaches. Then just change that unique password.



**PEOPLE**

**TECH**

**PROCESS**







**BASIC  
CHECKS**

**PASSWORD  
HYGIENE**

**ANTIVIRUS  
& UPDATES**













**DON'T  
PANIC!**

A circular orange button with a slightly textured surface. The text "DON'T PANIC!" is printed in a bold, yellow, sans-serif font, centered on the button. The button is set against a plain white background.







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**@GreshamCollege**





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SINCE 1597**



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**COLLEGE**