


Computing at



We all live in a world filled with information, technology and programming. You can use your computational thinking and creativity to understand and change the world.

Jul 3-11:20

Computing is mostly made up of these five areas:




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password
a secret and private word or number needed to access something

personal information
details, photographs and other private information

online-Safety



appropriate
safe, sensible and useful

consequence
the unpleasant and bad result or effect

concerns
being anxious or worried

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Being safe online is very important. Lots of websites ask you to set up a password.

Here are five commonly used passwords.


What is the problem with these?

1. 123456
2. 123456789
3. qwerty
4. 12345678
5. 111111

How would these be so easy to guess?

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Why Passwords?



We need passwords to keep our personal and private information safe.

Without passwords, anyone could access our private information!

Sep 28-12:32

Strong Passwords



Criminals and hackers are getting better at breaking into computer systems.

Therefore it is wise for us to make sure that our passwords are difficult for them to crack.

A **strong password** is one that is difficult for someone to guess or crack.



A **weak password** is one that is easy for someone to guess or crack.



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Which passwords are strong and which are weak?

| | |
|------------------|--------|
| mickeymouse | Weak |
| iab56yes_Sir | Weak |
| lucy_jones | Weak |
| letmein | Weak |
| K5~m@}pKMH~g5Q" | Strong |
| 123123123 | Weak |
| united-forever | Weak |
| S42CJwJMbph7UHa2 | Strong |

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Think of one word which would be a weak password.

sam
 fifa
 hello

How Secure Is My Password?
The #1 Password Strength Tool. Trusted and used by millions.

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Now, make one, or more, of those letters a capital letter.

| | | |
|----------------------|---|----------------------|
| sam fifa hello | → | SaM FiFa HeLLo |
|----------------------|---|----------------------|

How Secure Is My Password?
The #1 Password Strength Tool. Trusted and used by millions.

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Now, add a number.

| | | |
|----------------------|---|-----------------------------|
| SaM FiFa HeLLo | → | Sam44 Fifa123 HeLLo22 |
|----------------------|---|-----------------------------|

How Secure Is My Password?
The #1 Password Strength Tool. Trusted and used by millions.

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Now, add a special symbol:

! ?

| | | |
|-----------------------------|---|----------------------------------|
| Sam44 Fifa123 HeLLo22 | → | Sam44! Fifa123? HeLLo22!?! |
|-----------------------------|---|----------------------------------|

How Secure Is My Password?
The #1 Password Strength Tool. Trusted and used by millions.

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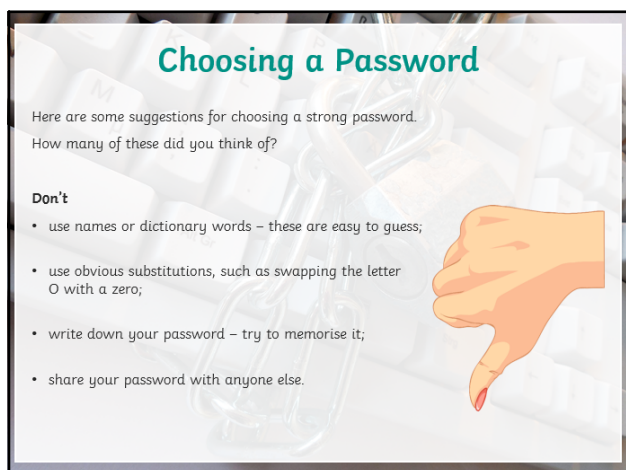
Choosing a Password

Here are some suggestions for choosing a strong password.
How many of these did you think of?

Do

- use at least 8 characters – even more if possible (12 is good);
- include a good mixture of numbers, symbols and special characters (e.g. -%!"), lower case and UPPER CASE letters;
- try and use a different password for each account.

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Choosing a Password

Here are some suggestions for choosing a strong password.
How many of these did you think of?

Don't

- use names or dictionary words – these are easy to guess;
- use obvious substitutions, such as swapping the letter O with a zero;
- write down your password – try to memorise it;
- share your password with anyone else.

Sep 21-14:47

Attachments

Tutorial for SMART Response 2013.notebook