Year 5: Computing and Online Safety

Understanding Networks

A computer system follows instructions to produce an output.

Input (Data and Instructions) → Process (As per Instructions) → Output (Information)
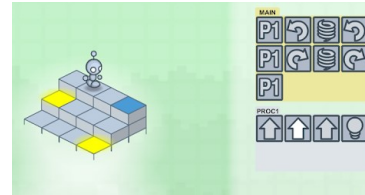
There are lots of ways we can communicate online.

It is important to use the correct method for the correct purpose. For example, sending an email is more professional than using WhatsApp or Facebook.

Understanding Algorithms

An algorithm is a process, or set of rules, that a computer follows to achieve something.

You need to program the device to do exactly what you want it to do.

If your LightBot does something wrong, stop and think about how to fix the algorithm.
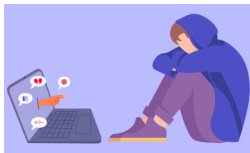

Think:

- Which way is your LightBot facing?
- How many spaces forwards or backwards?
- Does it need to turn?
- Which way does it need to turn?
- Does your LightBot need to jump?

Online Bullying

Cyberbullying is using digital devices, websites or apps to intimidate, bully or harm others.

Always look out for other people and support them if they are hurt.

ChildLine 0800 1111

CLICK CEOP Internet Safety

You can be a super digital citizen by looking out for anyone being hurt or bullied online and stand up for them.

If you see anything suspicious or unsafe online, make sure that you report it or tell a trusted adult who will resolve the problem or give advice on how to help.

Be an Upstander!
A PERSON WHO STANDS UP FOR FOR HIS/HER BELIEFS.
A PERSON WHOS DOES WHAT IS RIGHT, EVEN IF THEY ARE ALONE.
A PERSON WHO IS NOT A BYSTANDER.

CRC Article 29: All children have the right to be the best that they can be.
CRC Article 19: All children have the right to be safe.

RIGHTS RESPECTING SCHOOLS

Vocabulary

advice	An idea or opinion used to help others.
bystander	A person who is present, but does not take part. An observer.
characteristics	Special qualities that each person has.
computational thinking	To make a problem easier by breaking it down into steps.
critical thinking	To think something through carefully.
digital	The storing, using or sending of information through technology.
digital citizen	People who use technology to communicate respectfully.
packet	A collection of data used to communicate with other computers.
protocol	A system of rules and instructions to follow.
resolve	To fix a problem.
superhero	Someone who protects others.
suspicious	Something that causes questions or doubt.
system	Things that work together as a whole.
unique addresses	Websites all have their own individual address.
upstander	Someone who supports or stands up for others.
upstanding	To stand up against hurtful behaviour or bullying.