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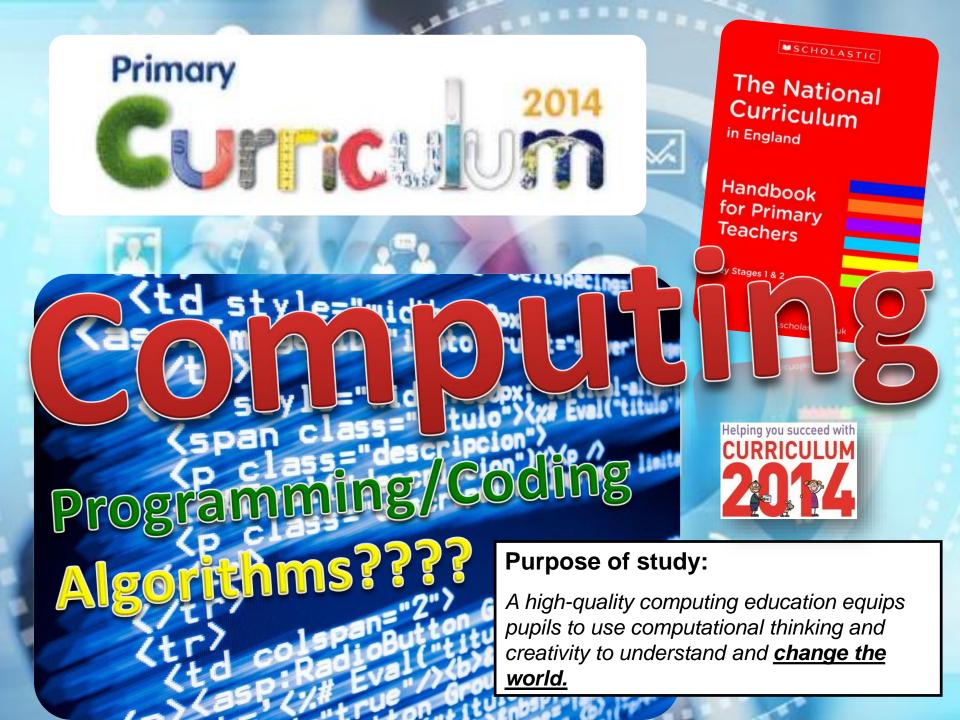
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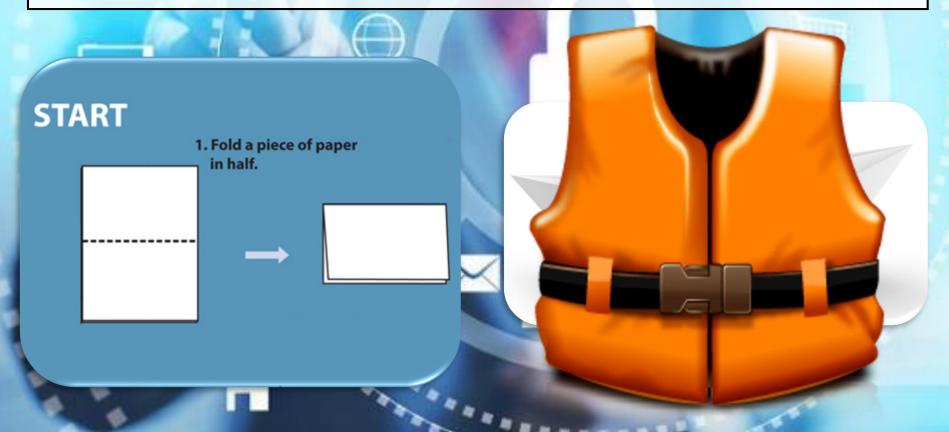
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Mr Bailey is a visionary for how ICT can be used creatively to motivate, stimulate and raise standards. **Nick Anderson (Headteacher - Bede Community Primary School - Gateshead)**



Success with Primary Computing

Algorithm: A PRECISE step-by-step set of instructions to achieving a specific goal



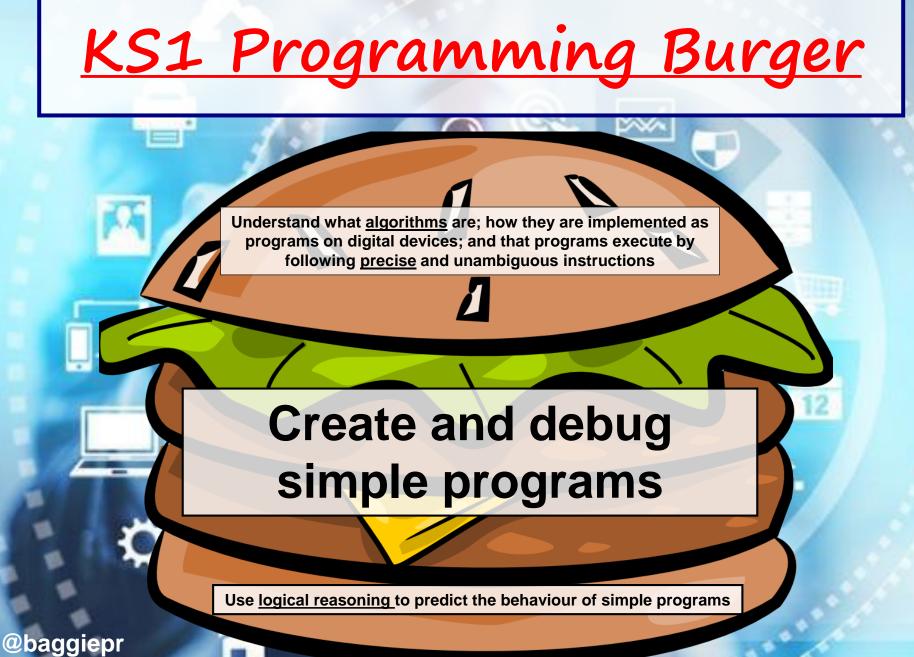
Key stage 1

Pupils should be taught to:



- understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug simple programs
- use logical reasoning to predict the behaviour of simple programs
- use technology purposefully to create, organise, store, manipulate and retrieve digital content
- recognise common uses of information technology beyond school
- use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.





www.code-it.co.uk



70U PUT YOUR 000 LEFT LEG IN our left leg out IN OUT IN OUT SHAKE IT ALL ABOUT

Algorithm – A <u>precise</u> step-by-step set of instructions to achieving a specific goal.

What if the Hokey Cokey really IS what it's all about?







PE lessons etc are a great place for introducing algorithms. We all have our own personal 'getting ready' algorithm. Pupils need to understand that 'put on shoes' is not a single instruction.

Algorithm – A <u>precise</u> step-by-step set of instructions to achieving a specific goal.

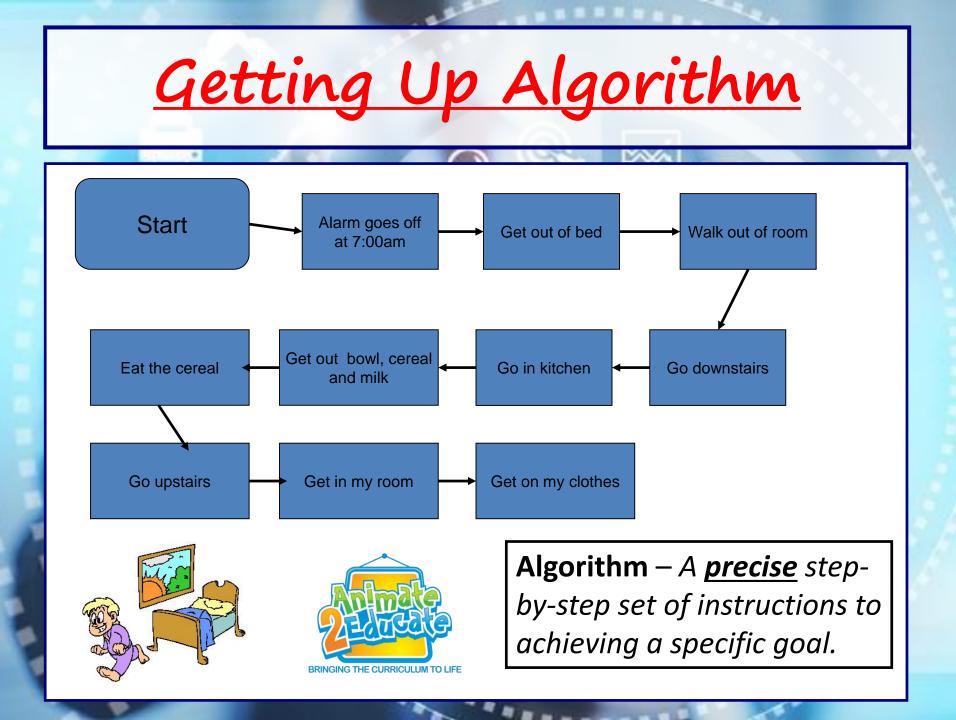


Algorithms



- Use the classroom,
 playground and school hall for lots of practical algorithms.
- Children needs lots of experience of both writing and following <u>PRECISE</u> instructions.

Algorithm – A <u>precise</u> step-by-step set of instructions to achieving a specific goal.







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Algorithm – A <u>precise</u> stepby-step set of instructions to achieve a specific goal. Program – An algorithm written in a language that a computer can understand.

'Helicopter Rescue' (part of Busy Bundle 1 by Busythings.co.uk)



'Path Puzzler' (by Busythings.co.uk)

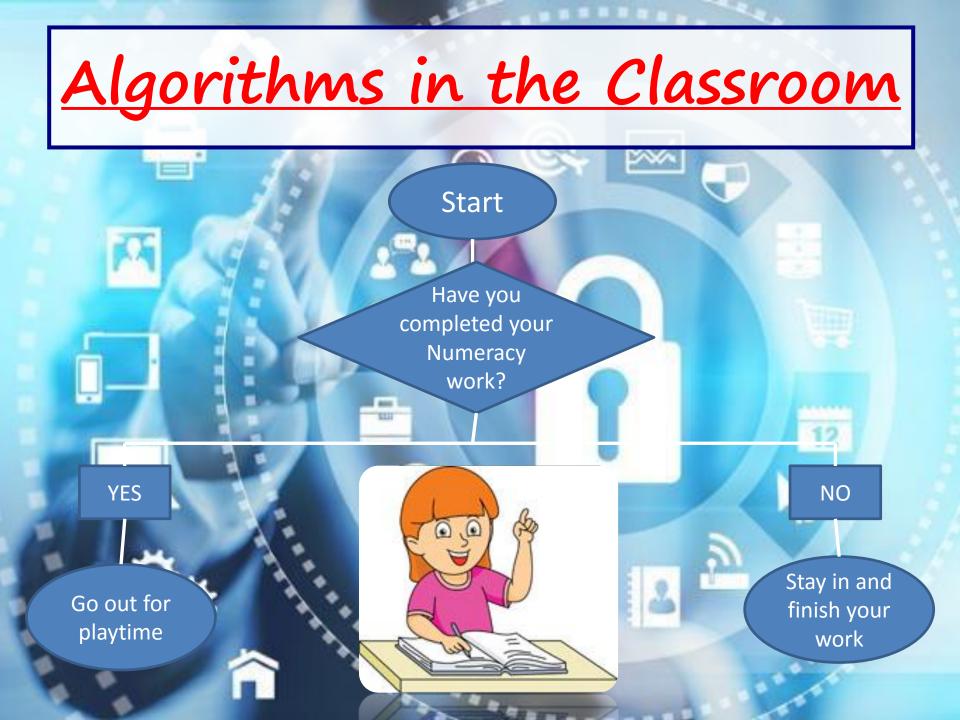


Key stage 2

Pupils should be taught to:



- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.





Underground Algorithms







Underground Algorithms

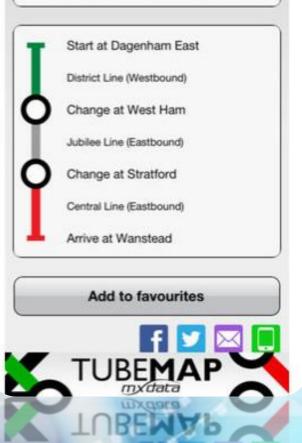


Pick 2 cards. Plan a PRECISE route between your chosen stations (what lines/colour? North or southbound? How many stops?)
Compare your route with a partner and then check accuracy and timings use **TubeMap** app.

•Verbal instructions – Give your partner a starting point on the Underground map. Have a second point in mind. Can you give **PRECISE** instructions to that point? Did your partner arrive at the correct destination? Routing Suggested Route

Your estimated journey time is 43 minutes, passing through 12 stations over 3 line(s).

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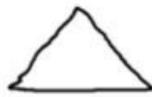


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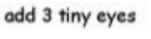
PRECISE Instructions

How to draw Tribob algorithm



draw a triangle for the body

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add three wings with stripes



add three tiny legs at the bottom

add a tail

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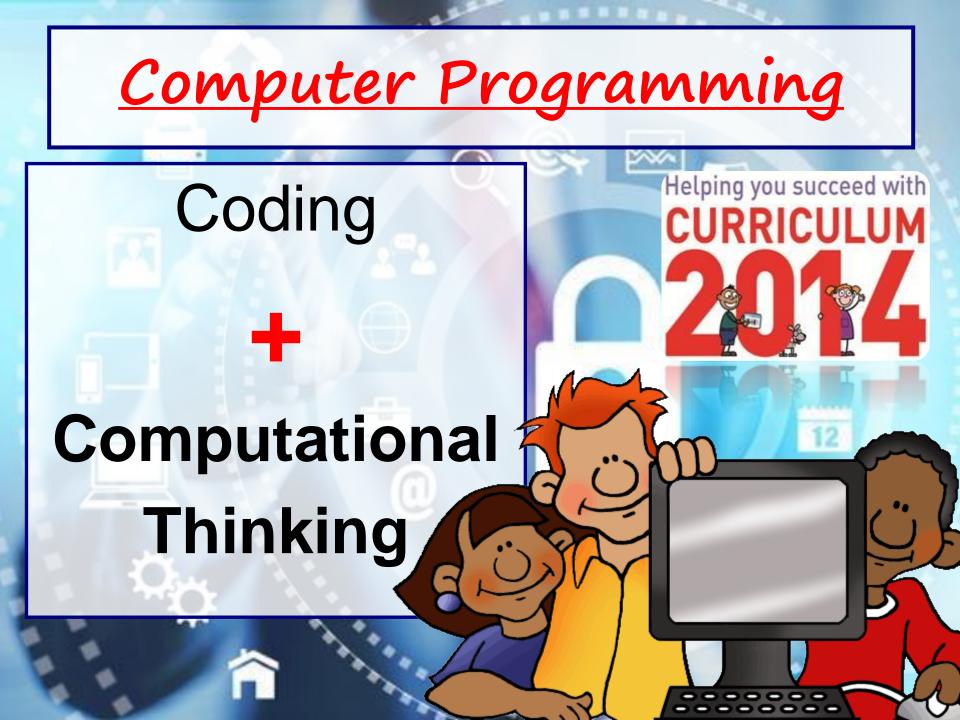
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Algorithm – A <u>precise</u> stepby-step set of instructions to achieve a specific goal. Program – An algorithm written in a language that a computer can understand.

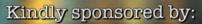
For bookings and more information: Tel: (0191) 469 2932 / 07921 069 489 eMail: info@animate2educate.co.uk Web: www.animate2educate.co.uk

simple

at BALTIC Centre for Contemporary Art on Friday 10th June 2016

EducationCity

eSchools Making primary schools click



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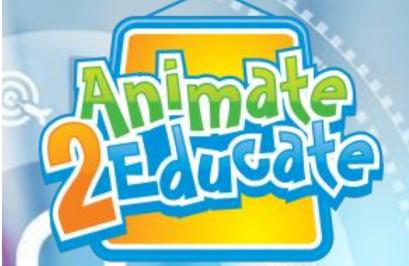
- 2 tickets for 'Art of Computing' conference on Friday 10th June 2016.
- **Overnight accommodation** at Jury's Inn Hotel, Gateshead Quayside (*adjacent to conference venue*) on the evening of Thursday 9th June.
- Entry to 'Talk on the Tyne 2' social event (food included) at Jury's Inn on the evening of Thursday 9th June.
- One year's Naace membership for each delegate.



For bookings and more information:

- E-Mail: info@animate2educate.co.uk
- Tel: (0191) 469 2932 / 07921 069 489
- Web: <u>www.animate2educate.co.uk</u>

Quote **<u>BETT2016</u>** to receive this special offer price. Offer valid until Friday 12th February 2016.



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