

Supporting autistic pupils in primary computing

Session 4 - Teaching excellent computing
lessons

Learning Outcomes

- Recognise what computing may look like for learners working below National Curriculum level
- Know how to adapt existing computing lessons to best meet the needs of autistic learners
- Know where to go to find resources and support for teaching computing to autistic learners



Pupils working below NC level

What is meaningful and relevant for these learners?

- Creativity
- Communication
- Cause & effect
- Digital resilience
- How can you support key skills?



Developmental Computing Resources

- [Patatap](#) - Create sounds and visuals using the keyboard
- [Jackson Pollock Art Maker](#) - Drag the mouse to create art, click to change colour, double-click to clear the screen.
- [Chrome Music Lab](#) – A number of fantastic music activities to explore.
- [Blob Opera](#) – Drag the blobs to make them sing!
- [CBeebies Games](#) – Games and activities linked to CBeebies shows to practise controlling the computer, e.g. Nina & the Neurons.

Can other pupils create cause & effect Scratch activities linked to specific interests? Examples [here](#).



Adapting Lessons to Meet the Needs of your Autistic Pupils



Adapting lessons

Adapting the Teach Computing Curriculum - Computer Systems & Networks

Teaching and Leading Primary Computing



Year	Unit
1	<u>Digital Writing</u>
2	<u>Pictograms</u>
3	<u>Sequence in Music</u>
4	<u>Audio Production</u>
5	<u>Systems & Searching</u>
6	<u>Sensing Movement</u>

How can you adapt a unit?



Adapting lessons

Consider a unit of work you are going to teach this year:

- What general approaches can you include?
- What programming specific pedagogies can you introduce?
- What extra resources would help?
- How can you incorporate pupil interests?
- What does success look like? How will you know if it is successful?



Feedback



Resources & Support



Courses

Online

[Creating an Inclusive Classroom: Approaches to supporting learners with SEND in Computing](#)

[Teaching Programming to 5-11 Year Olds](#)

[Introduction to Scratch](#)

Face-to-face/remote

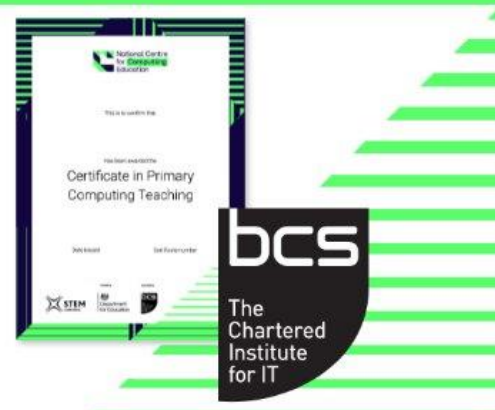
[Developing Programming in your Primary School](#)

[Inclusive Computing in Primary Schools](#)



Teach primary computing

Certificate awarded by BCS, The
Chartered Institute for IT



<https://teachcomputing.org/primary-certificate>



✓ Complete a full day course

✓ [Download and use the NCCE teaching and assessment resources in your classroom](#)

Download and use a Teach Computing Curriculum resource, then reflect on how you used and adapted it in the classroom.

➤ Now complete one item from **Develop computing in your community** e.g. Complete the Computing Quality Framework self-assessment

<https://teachcomputing.org/primary-certificate>



Computing Hubs

<https://teachcomputing.org/hubs> - Local courses

- Physical Computing loan kits (Crumble, micro:bit, Data loggers, Bee-Bots)
- Support for you to complete:
 - [Computing Quality Framework](#)
 - [Primary Computing Certificate](#)



Resources

Barefoot: <https://www.barefootcomputing.org/>

CAS Include: <https://www.computingatschool.org.uk/communities-and-events/cas-thematic-communities/cas-include-community>

SEND Computing: <http://sendcomputing.info/>

Hello World Magazine: <https://www.raspberrypi.org/hello-world>



Computing at School Communities

<https://www.computingatschool.org.uk/communities>

CAS SEND Virtual

CAS Bolton SEND

CAS Bootle SEND

CAS Burgess Hill SEND

CAS Knowsley Secondary with SEND

CAS Reading SEND

CAS Wythenshawe SEND



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Improving and evaluating impact

Planning for impact

Complete the Reflection on Learning form.

What do you plan to do...
in the next few weeks?
this term?
this year?

Impact evaluation

What works... for you?

www.stem.org.uk/rxgoab



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Tell us how we've done

Before you go, complete the evaluation form on our Impact Toolkit to give us feedback on this course. An evaluation form has been emailed to you – or go to impact.stem.org.uk - your feedback helps us improve our offer



Thank You



National Centre
for **Computing**
Education



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