Your Pocket Museum of Computing

A visit to a Computing museum can go a long way toward engaging and inspiring learners, however it's not always easy or practical to take classes out of school.

With a small collection of objects, teachers can engage and inspire learners and lead into interesting stories related to the development of modern computers and the history of Computing. Even better if the collection is available at minimum cost and can easily fit into a pocket.

#exabition is a collection of objects on a single piece of A4. Use a pencil case or envelope to store them in and you can easily add to or expand your collection.
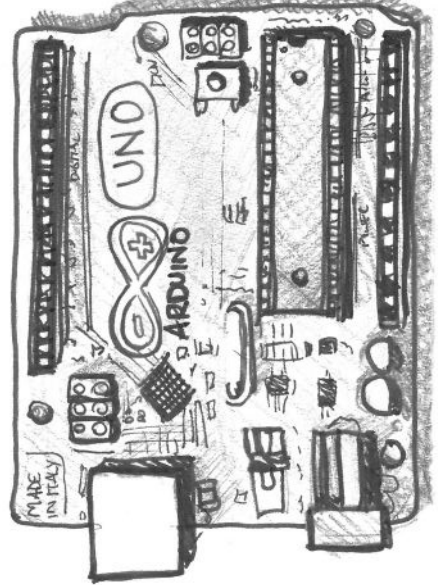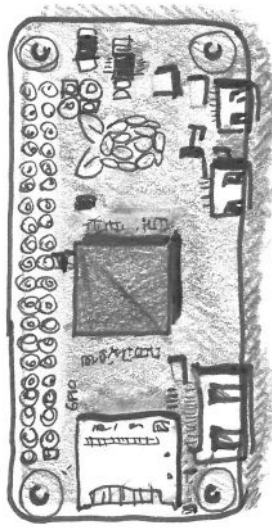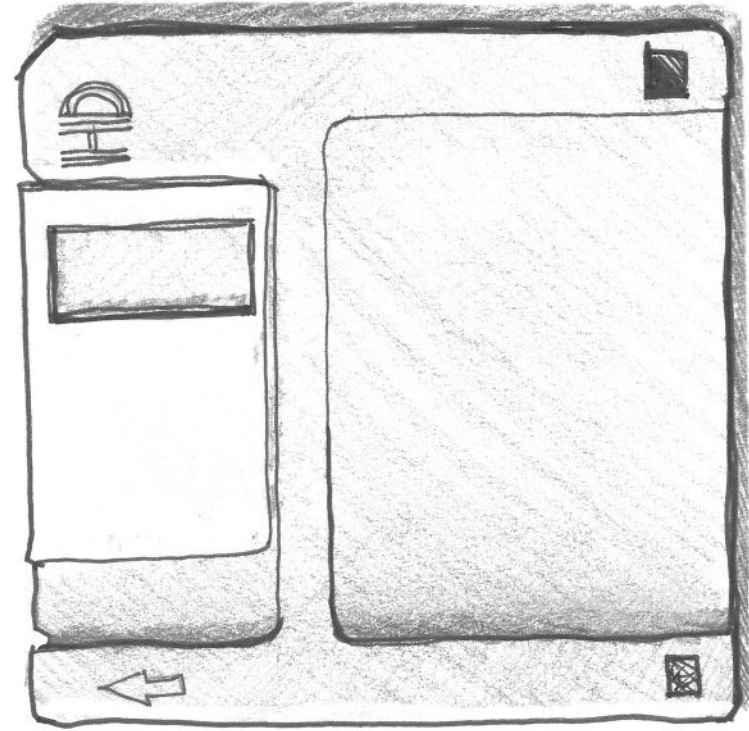
ACTIVITIES

Here are some suggested learning activities and challenges based around the objects. Try them and see if you can develop some of your own:

- **Odd One Out:** Game Master selects 3 – 5 objects from the collection with a similar theme and then asks the group to suggest which of these is the odd one out and why.
- **Match Game:** Game Master selects a technical term eg. ROM, Volatile, Proprietary and then asks the rest of the group to propose which object(s) most closely match this term.
- **Which Game:** Game Master selects 3 – 5 objects from the collection, then asks the group to suggest which of these is the most innovative, largest, fastest, smallest, most expensive, biggest impact on modern computing, most secure, least secure.
- **The Dating Game:** Place a selection of objects in chronological order
- **What's missing?:** Suggest an object for inclusion in this collection and explain why
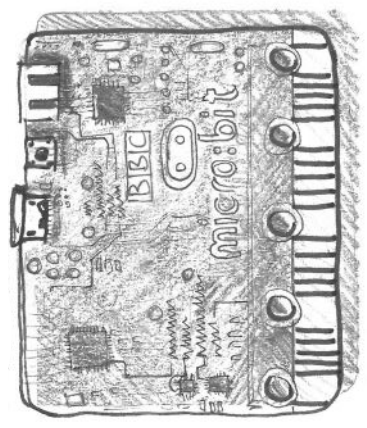
Description of items

1. **3.5" Floppy Disk:** High Density (1.44MB) magnetic storage medium. £1. 1982
2. **Arduino Uno:** open source, 16 MHz, 32 bit, micro-controller, manufactured in Italy. £20. 2003 .
3. **Raspberry Pi Zero**: single board 32 bit computer, manufactured in Wales. 2005.
4. **Intel P8086 CPU:** 16 bit, 8 MHz microprocessor. $200. 1978.
5. **8GB Micro SD Card**: £5. 2016.
6. **Intel Pentium 4 CPU**: 64 bit, 2.93GHz microprocessor. $218. 2002.
7. **64GB SD Card:** £20. 2019
8. **BBC Micro:bit:** open source, 16 MHz, 32 bit, micro-controller. £20. 2015.
9. **128MB Flash Drive USB:** £10. 2000.
10. **Code Bug:** 16 MHz, 32 bit, micro-controller £20. 2014.
11. **Nintendogs DS:** Game for Nintendo DS. 2005.
12. **Punched Card:** 1964.

We'd love to hear your thoughts and see photographs of this in use!

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78 TB

044 5A5410 3508 4121313

Kingston CE FC

microSD HC I

NINTENDO DS™ Nintendogs NTR-A03P-EUR

SanDisk Ultra 80mb/s SD XC I U 64GB SanDisk

7808B-2 LH40 076 INTEL ©1978

BBC micro:bit

exabition
A museum of Computing that fits in your pocket.

CodeBug

WD

UNO ARDUINO
MADE IN ITALY

Alan O'Donohoe
http://exa.foundation