



Programme

1. **National Museum of Computing:** Play classic computer games of the era and learn programming while you're at it.
2. **Floats and rafts by Learn with Ojo:** Build a floating raft from recyclable materials.
3. **Wack-a-Cosmo:** Play collaborative interactive games and explore sound, light, colour and music combinations.
4. **3D printing by Ultimaker Create Educate:** Watch 3D printers in action.
5. **Mini Tapestries by Creative Sparkworks:** Join a weaving workshop and make a wall hanging to take home.
6. **Design by Nature by Kidesign:** Design functional products which take inspiration from nature, using the basic methods of bio mimicry and design thinking.
7. **The Explore Table**
DIY USB Digital Microscope
Use DIY microscopes to explore the world or join a Maker session to create your own.

Be dazzled with the Moire effect:
Generate your own Moire effects by combining graphic patterns printed on card and acetate.

Explore polarised light:
Use a lightbox and transparent plastics to see bright rainbows of colour.
8. **Cars, Flying Craft and Robots by Robert Workshop:** Make elastic band cars, flying straw crafts and programme the new Rob Bot.
9. **Make your own puppet story:** Create a puppet and create a scene with your character. You will be taught how to operate your puppet and you could even film your final sequence!
10. **SoccerBotz by RedRobotics:** Play with Raspberry Pi and Arduino powered football robots.
11. **Poppy Izzard by DK Books:** Create cardboard owls and fabric birds while you watch exploding, picture-flipping science experiments.
12. **Sculpture with clay:** Come and learn sculpture techniques and work with different tools.
13. **OKIDO:** Inventions, activities and creations using everyday objects.
14. **Rock Art:** Paint on rocks and pebbles together.
15. **Engineering and Robotics by U Can Too:** Create and programme robots built from electronic components and use sensors to create critters with a variety of outputs.
16. **Do it kits:** Make, hack and play on an analogue, electronic instrument.
17. **Everyone Can Programme:** Solve set challenges by building and testing computer programmes, using physical objects and toys.
18. **ZappyKit:** Build your own interactive soft toy: a little monster that blinks when its ears are touched.
19. **Trotec laser cutting:** Discover the magical world of laser cutting and learn how artists, scientists and technologists use laser cutting to create the most amazing things.
20. **Art & Making:** Come and make art tea towels or try out printmaking!
21. **Kids Invent Stuff:** Invent underwater gadgets.
22. **Invention Lab:** Invent and make something to make the world a better place.
23. **Inventions in Virtual Reality:** Come and play in virtual worlds with the HTC Vive.

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