**Coding is Fun**

**Session 6 : Raspberry Pi**

**A Bare Bones Computer**

1. **Looks basic – actually quite powerful**

The latest – and coolest!

1. **Hardware and Software**

The **bits** of it are just like a PC

It has an **operating system** – just like other computers

1. **Programming / Applications**

We can **programme** it – just like other computers

**Applications** – programmes that users see

**Geany** – Integrated Development Environment – IDE  
An application for creating applications

**Write** code – **compile** it (convert it to machine code) – **run** it

1. **Graphics**

**OpenGL** – as used in many computer video games  
PCs, games consoles, mobile phones etc.

**3D co-ordinates**  
Viewing objects in space – with a ‘camera’  
Model – View - Perspective

**Colours** – red / green / blue  
And transparency / opacity

1. **This can be done at home**

**Cost** – about £30 for the Raspberry Pi

You’ll need the **other bits** as well  
But might have some of them already?

**Who Doesn’t Like Raspberries?**