This Raspberry Pi kit includes:

• 1 Raspberry Pi, Model B+, in a protective case
• 1 power cord
• 1 SD card with Raspbian operating system
• 1 HDMI connector cable

In addition, you will need:

• An HDMI monitor or television, with power cord
• A USB Keyboard
• A USB Mouse
• An ethernet cable, if you need to download additional software or network with another device.

Our Pis are already configured with Raspbian, a Linux distribution, and pre-loaded with Scratch and other software. Many of the resources listed here give instructions for setting up a new Pi and installing an operating system, but you can skip those steps and get down to business!

Setup

Start by connecting your keyboard, mouse and HDMI monitor or TV. Plug in the Pi and it will start up — there is no “On/Off” button.

Login: pi
Password: raspberry

When you type a password in the command line, you will not see any letters on the screen, but your keyboard IS working!

Then type startx to get to the GUI.

Shutdown

Before you shut down, make sure you back up your work. You can save code files to a cloud service like Google Drive or Microsoft OneDrive, or a USB flash drive.

Shutting down safely:

• In the GUI, double-click the Shutdown icon; OR
• Click the Start-like menu in the bottom left and choose Logout.
• At the command prompt type: sudo shutdown -h now

Resources

These books give a basic overview of the Pi, its parts and basic software, and a few essential projects to get you started:

• Raspberry Pi for Kids for Dummies by Richard Wentk
• Raspberry Pi User Guide by Eben Upton and Gareth Halfacree
• Ultimate Guide to Raspberry Pi by Kevin Partner

You can find projects for beginning and experienced users here:

• RaspberryPi.org’s learning resources https://www.raspberrypi.org/resources/learn/
• Adafruit’s Raspberry Pi projects https://learn.adafruit.com/category/learn-raspberry-pi

For more about computer coding for kids and young adults, try:

• Python for Kids: A Playful Introduction to Programming by Jason Briggs

If you run into problems or steps that are unclear, we suggest the Raspberry Pi Cookbook by Simon Monk for troubleshooting. This is also a great resource for advanced users to experiment and design your own projects.

Pi Frozen? Try this!

1. Wait. Sometimes it’s just thinking!
2. Try killing the task.
   a. CTRL ALT F2 (or F3-F6) to switch to an alternate terminal.
   b. Login (pi / raspberry)
   c. top #lists running processes. Look for the pid of the one using lots of CPU or Memory
   d. CTRL C #this stops top
   e. sudo kill $pid #replace ‘$pid’ with the pid you found earlier.
   f. top #make sure things have settled down
3. Try restarting the computer “softly”
   a. CTRL ALT F2 (F3-F6 work too); this will switch you to another command prompt.
   b. Login (pi / raspberry)
   c. Type: sudo shutdown -r now #restart
4. Pull the plug. This is a LAST RESORT. It can totally corrupt the SD card, which means it has to be re-imaged.