# Stars for Schools: Raspberry Pi Loan Agreement

## 2nd October 2023

This document serves to establish the terms of the agreement for the loan of Raspberry Pi (RPi) computers from the Stars for Schools program, hosted at the University of Surrey, to your school or institution. It is hereby acknowledged that these RPi computers shall remain the exclusive property of the University of Surrey.

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|---|---|
| School | |
| School address | |
| School contact name | |
| School contact signature and date | |
| School contact email | |
| Number of Raspberry Pi kits loaned | |
| Date of transfer | |
| Programme mentor | |
| Mentor signature and date | |

**Roles of the Stars for Schools Programme**

The *Stars for Schools* programme has the primary objective of imparting education in the field of stellar astrophysics and its related disciplines, including physics, mathematics, and computing, to school students. To achieve this objective, *Stars for Schools* utilizes the *Window to the Stars* software, which is included with the provided Raspberry Pi(s). Schools participating in the *Stars for Schools* programme are assigned mentors who serve as the initial point of contact for any required assistance or support.

At the time of writing, Dr. Robert Izzard (Contact: r.izzard@surrey.ac.uk) serves as the programme director. For the most up-to-date contact information, please refer to the *Stars for Schools*

programme's official website `https://stars_for_schools.gitlab.io` or consult programme mentors.

The hardware and software, along with any associated support, are provided on a goodwill and best-effort basis. The Raspberry Pi (RPi) is made available to the school on a loan basis. The school is responsible for overseeing the Stars for Schools programme and its participants in an appropriate manner. The University of Surrey and its employees shall bear no responsibility for any data loss, financial loss, or damage resulting from the use of the RPi or the implementation of the Stars for Schools programme. It is important to note that data is not subject to automatic backup. Data is stored on an internal microSD card, which is susceptible to failure or removal from the RPi at any given time.

The RPi comes with a microSD card with a minimal install of the standard operating system, Raspberry Pi OS (RPiOS), along with the software required to run *Window to the Stars* and carry out the various exercises in the programme. At the time of delivery, the software has been validated by the programme leader. Other software can be installed by the administrator if required.

The *Stars for Schools* programme disclaims any responsibility for the usage of the RPi and any resulting consequences. It is important to acknowledge that the RPi should not be regarded as a secure platform, as no platform offering hardware access to the user can be deemed entirely secure. Its intended use is exclusively for the *Stars for Schools* programme.

**Roles of the School**

The school should read the programme documentation which is available at its website, `https://stars_for_schools.gitlab.io`, and through programme mentors.

The school assumes the responsibility of ensuring regular updates for RPiOS, with a minimum frequency of once per month, to maintain its security. Comprehensive update instructions are provided by Raspberry Pi at `https://www.raspberrypi.com/documentation/computers/os.html`. Additionally, assistance is available through programme mentors for any required support.

The school is responsible for maintaining adequate insurance coverage to address potential damage to, losses of or misuse of the RPi hardware and software, such as deliberate damage, theft, fire, or any damages arising from use of loaned RPis. The RPi is powered by the standard Raspberry Pi 5V USB power supply, which, given its low voltage and power requirements, poses a minimal risk. However, as is the case with all electronic equipment, any component of the RPi, including the power supply, may suffer from equipment failure. In such an event, it is imperative to promptly disconnect the hardware from mains power and refrain from further use. Additionally, like most electrical equipment, the RPi should not be left unattended during operation. In the case of equipment failure, the school should contact the programme through their mentor or by email direct to its leader.

In the event that the school discontinues the programme or if the programme leader at the University of Surrey terminates the programme, the school shall make arrangements for the expeditious return of all RPis and supplied accessories in their original condition.

The school should be aware that there are two login accounts with associated passwords.

1. The root user ("pi") login which is for administrator access only, e.g. to update the operating system (see below). The password for this account will be set randomly prior to delivery of the RPi.

2. The "wtts" user which has no administrative privileges and is designed for a normal user. The default password for this account is "wtts" and is the same on all provided RPis.

Access to the internet or USB connectivity is necessary for the transfer of results, data, and files from the RPi. By default, the RPi is not configured for internet access. However, an individual with administrator access can enable internet connectivity if deemed necessary. In such instances, both the user and the school should exercise caution, recognising the inherent risks associated with internet-connected devices.

The RPi is equipped with USB ports that allow users to connect USB devices for file access. It is crucial for the school to acknowledge the potential security risks associated with permitting USB access. These USB ports will remain enabled, as they are essential for data transfer purposes.

**Questions and contacts**

For any inquiries regarding the Stars for Schools programme, please visit our website at `https://stars_for_schools.gitlab.io`, where you may find answers to your questions. Alternatively, feel free to reach out to your programme mentor for assistance. If further clarification is required, you may contact the programme director, Dr. Robert Izzard, via email at r.izzard@surrey.ac.uk. In the unlikely event that you are unable to reach Dr. Izzard, please consider contacting the Head of the Physics Department or the Head of the School of Mathematics and Physics at the University of Surrey. Their contact details can be found at https://www.surrey.ac.uk/department-physics