**Year 7/8 Digital Technologies**

**Chat Bot Design Task — *The Little Red Yellow Black Book***

**Suggested duration:** Two lessons

## Summary

In this lesson, students will create a chat bot artificial intelligence tool that is designed to provide users with information about various locations mentioned in *The Little Red Yellow Black Book.* Students will use creative thinking and digital logic strategies to develop their chat bot design project, which will be implemented as a fully functional application. They will first work through an introductory tutorial to become familiar with the software, then they will create a chat bot that answers questions about Aboriginal and Torres Strait Islander festivals and tourist programs to obtain information for planning a summer holiday.

*Many Australian and overseas visitors are taking advantage of the increasing number of tourist programs operated by our communities. There is no better way to appreciate our cultures or the Australian envi­ronment than to hear it from us* (The Little Red Yellow Black Book, p. 185).

*Should you wish to visit our communities, you may find that there are organised tours, in many cases led by Indigenous Australians. If not, it is advisable to write, phone or fax the council in any community you wish to visit. There are some communities, especially in remote areas, where you need to seek permission to enter before your visit as it is legally privately held land. This also ensures your safety in remote and difficult terrain, and helps to protect the community from unwelcome intrusions, especially at times of mourning* (*The Little Red Yellow Black Book,* p.186).

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## Learning outcomes

1. Students will create a chat bot tool.
2. Students will demonstrate planning and managing a digital design which communicates information from *The Little Yellow Black Book*.
3. Students will gain knowledge about protocols relevant to Aboriginal and Torres Strait Islander peoples’ lands and waterways.

## General capabilities Cross-curriculum priority

Critical and creative thinking Aboriginal and Torres Strait Islander histories and cultures

Information and Communication Aboriginal and Torres Strait Islander histories and cultures organising ideas: 1, 2, 3, 4,

Technology (ICT) Capability 5, 6, 7, 8, 9

**Australian Curriculum content descriptions**

**Years 7 and 8 Design and Technologies**

Design the user experience of a digital system, generating, evaluating and communicating alternative designs (ACTDIP028).

Design algorithms represented diagrammatically and in English, and trace algorithms to predict output for a given input and to identify errors (ACTDIP029).

Implement and modify programs with user interfaces involving branching, iteration and functions in a general-purpose programming language (ACTDIP030).

Plan and manage projects that create and communicate ideas and information collaboratively online, taking safety and social contexts into account (ACTDIP032).

## Provisions for differentiation

## Learning support

Students with special learning needs may wish to present a list of questions and answers rather than follow the design project instructions on a digital platform.

## Extension

Students could develop an alternative chat bot for *The Little Red Yellow Black Book* with many additional functions through the Scratch freeware website at <https://scratch.mit.edu/educators/#resources>.

## Resources

* Online access and desktop computer — one per pair of students
* Photocopies of the **Assignment sheet** — one sheet per pair of students
* *The Little Red Yellow Black Book — an introduction to Indigenous Australia* (4th edition), Aboriginal Studies Press, AIATSIS, Canberra, 2018.

## For teachers

Ensure that the guidance notes included in *The Little Red Yellow Black Book* teacher resource have been considered. **Teachers will need to clarify the protocols about visiting Aboriginal and Torres Strait Islander lands, communities and sites.**

Vocabulary

Artificial intelligence

Protocol

Preparation: Go through the guide for chat bot or use your preferred tool and platform, <https://www.thetechieteacher.net/2018/05/easy-way-to-create-chatbots-using.html>. Students will need access to the internet and devices along with *The Little Red Yellow Black Book*. Copy the **Assignment sheet** — one for each student.

**Step 1** Distribute the **Assignment sheet** and go through the activity step by step**.** Read the information on pp. 183-187 of *The Little Red Yellow Black Book* as a class discussing how the information might be used.

**Step 2** Organise students into pairs**,** and hand out the A4 paper — one per pair.

**Step 3** Assign the remainder of the lesson for students to complete the chat bot task.

**Assessment ideas**

Q and A to check for understanding of technical processes and the information they are using.

Chat Bot assessed for meeting the guidelines with accurate information.