**A bag for Juliane plan**

**Introduction**

In this activity, students learn about Juliane, a girl from Zimbabwe who has come to England as a refugee and create a light up bag for her journey to school.

**Time:** 60 minutes+

**Learning objectives**

* To develop empathy and understanding for child refugees
* To design a bag to help Juliane, a child refugee, feel safer on her school journey
* To design and code a light for Juliane’s bag using micro:bit
* To create a bag featuring a micro:bit light and other features to help Juliane (if have materials)

**Materials needed:** lesson slides, large sheets of paper, MakeCode editor, micro:bits, battery packs, a bag for Juliane sample files, bags and other creative materials if wish to make the bag

**Juliane’s story (10 minutes)**

* Show the animation of Juliane’s story (**slide 2**).
* Discuss as a class, using the questions on **slide 3** as a guide.

**A bag for Juliane (10 minutes)**

* Introduce the project of creating a bag for Juliane with a light and other features to help her feel safe at night **(slide 4).**
* Use **slide 5** to discuss the tasks to complete and give out large pieces of paper for students to complete their design.

**Light algorithm (15 minutes+)**

* Discuss with students how the light for the bag could work and ask them to write an algorithm.
* An example algorithm is on **slide 6** and you may need to go through some concepts used depending on your students.

**Coding the light (15 minutes+)**

* Ask students to write their program using the MakeCode editor and their algorithm, working through problems and regularly testing and debugging their code **(slide 7).**
* Give appropriate support depending on your students’ level.
* Example code is given on **slide 8** or can be downloaded.
* Once they have a working program, ask students to download it to their micro:bit to test it out.

**Creating Juliane’s bag (15 minutes+)**

* If you have materials and wish students to create their bag, ask them to do so.
* They can also design and create other features of their bag.

**Evaluating a bag for Juliane (10 minutes)**

* Invite students to show their work as appropriate (if they have made their bags, you could create a display).
* Discuss and review what they have learnt during this project **(slide 9).**