

## **Flood Risk: STEM box**

Please find below a quick summary of what's inside each STEM box for ease. Please follow our detailed instructions inside the Teacher's Guide for more detailed information.

### **What's inside the STEM box?**

- 4x paint roller trays pre-prepared as per Instructions
- 1 x 2L bag Soil
- Rulers
- 2x 500g bars of non toxic modelling clay. You could also use plastic building blocks, or any other materials that would create an impenetrable surface area.
- 1 x Teacher's Guide (Printed)
- Worksheets that can be photocopied as per class requirements
- QR Code on box label to access all digital resources

### **What items should I prepare additionally?**

- One handful of sticks/plant matter to create 'Forest' effect
- Turf/ Grass to create 'Park' ground effect
- 4x empty 2l drinks bottles with holes in the lids/top section: creates a nice 'rain' effect. Watering cans or similar could also be used
- Antibacterial cleaning resources for post experiment wipe down
- Paper towels/blue roll for wet surfaces
- Any extras that may compliment the needs or experience of your class

### **Extra Information:**

- Polyfilla has been used in previous examples of this experiment online but should only be used here where an additional a risk assessment is conducted in school as well as a specialist waste disposal method as approved by local government/agencies: <https://www.falkirk.gov.uk/services/bins-rubbish-recycling/trade-waste/hazardous-waste.aspx>

<https://www.sepa.org.uk/regulations/waste/special-waste/>

- Modelling clay can be wiped down, sealed and reused
- Paint roller trays can be wiped down and reused
- Please dispose of any plant matter responsibly outdoors or in an appropriate compost bin