

# Stream Study

## Course Details:

- **Age range suitability** : Years 3—6
- **Ratio** : 1 adult to every 6 children (+ additional SEN support if required)
- **Additional Information:** Appropriate old outdoor clothing needed. Wellingtons essential. (Spare set of clothes suggested!)

How fast is the stream flowing? How deep is the water? How does the infiltration rate vary from this site to another area? Is this water polluted? Are there any minibeasts living in this stream? These are just some of the questions that will be answered during the days thorough investigation.

### **Arrival Time: 10:00—10:30**

The days activities are explained along with the necessary safety precautions.

**Please note, Each member of staff will be responsible for a small group of children, but will always be in eye sight of other groups.**



The programme will involve a day studying a stream at a local site from source to sink, students will collect data about its size, shape and flow using scientific equipment and study some creatures living in this habitat with an identification key. An introduction using key words begins the day along with an explanation of the activities and the equipment that will be used. Students will then be split into small groups of approximately 6, each needing a supervising adult. The groups will then investigate a given position along the stream so a data picture of the stream can be created.

Students will collect their data and then move to a site away from the stream to collect data for the infiltration rate comparison. Before lunch there will be some mathematical calculations to be done as a group to calculate the streams velocity (speed of flow) at each site.

**Lunch time:** Students will eat their packed lunches brought from home. There will be a safe area of land for the children to spend their free time during lunch. Please note that there are only trees for shelter against the rain and sun, and there are no toilets at the study sites.

The afternoon will be spent comparing the sites that each group investigated and deciding if there is any reasons for the fluctuations in the groups results, for example, the temperature due to shade, the velocity due to depth, slope of the land etc. The day will conclude with a game involving a rope that will demonstrate how erosion, transportation and deposition occur around a bend in a meandering stream.

**Finish 2.15– 2.30** Students will return equipment, pack up bags and change into spare clothes if necessary to travel home.