

KS1/2 Lesson Plan

Programme of Study: The School Trees Project – Lesson Plan 3 – Commitment – Science / Maths	Year Group: 1 - 3	Date:
Knowledge, Skills and Understanding: <ul style="list-style-type: none"> • Asking simple questions and recognising that they can be answered in different ways • Observing closely, using simple equipment • Gathering and recording data to help in answering questions • Performing simple tests • Identifying and classifying • Using their observations and ideas to suggest answers to questions • Performing calculations with increasingly large whole numbers • Using measuring instruments • Making connections between measure and number 	Grouping: 2 pupils per class each week	Duration: Weekly from March – October first three years after planting
	Activity: An activity in pairs whereby each week two pupils measure out 20 litres of water and are escorted to their new tree to water, monitor and record. Any new information to be reported back to the class.	
Learning Intentions: To understand how to work with a partner and how to take responsibility for the watering and monitoring of your own street tree, to learn how to monitor and record change and then report this back to the rest of the class. To ask questions about why trees need water, how watering helps the tree to grow and to get a better understanding of the seasonal change of trees. To develop a better understanding of, and closer relationship to trees.		
Progression of Learning and Teaching: Key Teaching Points		Points to Remember: Key Learning & Teaching Strategies
Introduction: <ul style="list-style-type: none"> • Explain why trees need water and that without the class Tree Guardians watering the new tree it would not survive, it is because of them that their tree will thrive and become a positive addition to the school environment. Briefly mention some of the beneficial impacts of urban street trees and school trees; homes and green corridors for birds and insects, shelter from wind, rain and sun, flood prevention (from trees absorbing surrounding excess water) • Identify and describe the function of watering a tree; how the water reaches the tree and what happens next • Explore the requirements of plants for life and growth (air, light, water, nutrients from soil and room to grow) • Appoint that week's Tree Guardians 		Resources: Magnifying glass Observation chart Plastic bottles containing different measurement levels Key Vocabulary: urban, street trees, green corridors, flood prevention, nutrients, soil, bark
Activities and Experiences: <ul style="list-style-type: none"> • Work with the Tree Guardians to measure out 20 litres of water using different measuring tools. Either upcycled bottles brought in from home with different measurement levels written on, or measuring jugs which are used to fill watering cans • Equip the Tree Guardians with the resources needed to monitor the tree, magnifying glass, observation chart etc and briefly explain how these are used answering any questions • Teacher or TA to escort children to oversee the successful watering of the tree and record observations • Ask the following questions: is anything different from last week? Is there anything growing in the soil? Can you see any buds, flowers, leaves, insects? • Record this in observation chart, even if there is no change this should be recorded. If there is no change you could make observations of the tree's environment, what is the weather like, is the soil wet or dry? What does the bark feel like? Can you see any birds? What can you hear? 		Key Questions: how much water does a newly planted tree need? Differentiation: through questioning and by outcome

Conclusion/ Plenary:

- Make a plan for the forthcoming tree watering sessions and observe the progress of the trees' growth.

Cross Curricular Links: Maths, Science and English

Success Criteria:

- Pupils have a greater understanding of trees and our relationships with them and their relationship to one another
- Pupils understand what trees need to survive, the importance of ownership and caring for something, and how our actions impact on the wildlife around us
- Pupils work productively in pairs and understand the connection between measure and number
- Pupils feel empowered by their watering responsibility and understand the significance of observation, monitoring and successfully reporting back to the class

Assessment Methods:

Observation / Question and Answer

Evaluation/ Next Steps:

The School Trees Project – Lesson Plan 4 - Celebration