

Outdoor Learning, STEM 1

Learning experience	
Set up camp using textiles	
CfE Level - Early	
Experiences and Outcomes and associated benchmarks/skills	
<p>E&Os TCH0-04b I enjoy experimenting with a range of textiles. TCH0-04c I can share thoughts with others to help further develop ideas and solve problems. TCH0-09a I explore ways to design and construct models. TCH0-10a I explore everyday materials in the creation of pictures/models/concepts.</p>	<p>BMs/Skills Explores and identifies at least 2 ideas by using given resources to solve a problem. Selects and appropriate solution. Builds models using different materials. Uses tools and materials to create models. Describes materials by touch. Uses a range of materials when creating a model. Identifies when a material is suitable or not for a specific function.</p>
Overview of learning experience	
Pupils are given various textiles and asked to make a tent dry and warm for a teddy bear to sleep in.	
Outline of learning	
<p>LI/SC I can work well with others. I can help to make a shelter. I can make choices on suitable materials. I can observe the success of materials for a purpose.</p>	<p>Resources A bed sheet, a plastic table cloth, an old duvet, a fleece blanket, 4 lengths of rope. Cut each textile into 4 to give 4 groups worth of textiles. 4 teddy bears or soft toys. A bucket of water. Some thermometers.</p>
Description of learning experience and assessment opportunities	
<p>Teacher to explain that the pupils are to pitch a tent for a teddy bear. The tent must shelter the teddy from the wind and rain and keep teddy as warm as possible. Teacher could demonstrate how to use the rope to make a washing line by tying it to 2 objects, benches, play equipment, bins, trees. Then hang the textile over it and use rocks to hold the material out on either side to give a tent shape. Pupils will have 4 materials to choose from they can select one for the roof and 2 for the bears bed. The bears should go inside the classroom while this is done to stay warm with their thermometers attached to them. Pupils should build their tent and make a bed for the bears. They should then (all at the same time to make this a fair test) collect their bears and put them in their beds. The thermometer should be read to get an initial temperature for the bear. The bucket of water should be used to pour some water over each of the tents to check for waterproofness. Once</p>	

this is done the bears temperature should be checked for warmth in the beds designed. The results should then be discussed as a class. What worked and why? Which material is most waterproof? Which material kept the bear most warm?

Consideration of risk

It should be noted that the washing lines could be a trip hazard.
Pupils should not tie the rope around objects which could fall over and cause harm.
Pupils should be dressed appropriately for the weather conditions.

Taking it further – what else could you do?

Discuss other uses for the materials provided. What were they originally? Why are they useful for that job?
Write a story about their work.
Record their results in a table.
Tidy up the lesson, hang wet things up to dry.