


## Caru Cymru Local Trial Template

<b>Local Authority:</b>	Isle of Anglesey County Council	
<b>Project Title:</b>	Creating products by recycling HDPE plastic using Panini Makers	
<b>Issue addressed:</b>	<i>Reducing and recycling HDPE plastic waste</i>	
<b>Brief outline:</b>	By using Panini makers the school involved will create coasters, Christmas decorations, key rings and garden markers out of recycled HDPE plastics – mainly milk and soft drink bottle tops	
<b>Timescales:</b>	<b>Start Date: March 2023</b>	<b>End Date: June 2023</b>
<b>Project Outline</b>		
<b>What is LEQ problem?</b>	<i>HDPE plastics is one of the most numerous types of plastic waste. This project aims to reuse/recycle HPDE plastic to create items for sale at the school</i>	
<b>Who is the target audience?</b>	<i>Pupils at Ysgol Uwchradd Bodedern, teachers and parents</i>	
<b>Where will you run it? (+ What 3 Words location if possible)</b>	<i>Ysgol Uwchradd Bodedern Anglesey Writers.tightrope.breezes</i>	
<b>What is the intervention?</b>	<p>Using HDPE plastics (mainly milk and soft drink bottle tops ) to create various items to sell at the school.</p> <p>The school was inspired by this youtube video <a href="#">3 Easy Recycled Plastic Projects   Recycling for Beginners - Bing video</a></p> <p>HDPE is the most common waste plastic. The school intends to use HDPE plastic to create income for the school whilst reducing plastic waste. Pupils and teachers were asked to bring in milk and drinks bottle tops for this project. Panini makers were purchased to melt down the plastics to create sheets of colourful plastic ready to be cut and shaped into the desired shapes.</p>  <p>Process -The collected bottle tops were placed in a heated panini maker between sheets of grease proof paper (to prevent plastics melting on to hot plates). The melting point of HDPE is 180 degrees centigrade. The trials showed that about 6-7 minutes was the ideal time once the panini maker was at its optimal temperature. A weight is put on top of the panini maker to keep pressure on the bottle tops. This was the first attempt. It would be preferable to cut the bottle tops into small pieces to make it easier to melt and a more colourful and interesting pattern. This process is repeated a couple of times with more HDPE plastic added.</p>	



Once the sheets had cooled down then the pupils started the process of creating key rings by using templates to mark out letters and then file them down



IMG\_2119.mp4

<p><b>What is the gross cost of intervention to KWT (including vat, postage etc)?</b> Add links if possible</p>	<p>3 x panini makers, oven gloves, Teflon cooking mats, kitchen scales, coping saw, drill, chisel set and sanding discs - £361.69</p>
<p><b>Who is procuring the intervention?</b> Please code PO to nominal 5075</p>	<p>Gareth Evans KWT</p>
<p><b>What are you trying to measure?</b></p>	<p>Reusing/recycling HDPE plastics minimising plastic waste</p>
<p><b>Who will be involved?</b></p>	<p>Keep Wales tidy project officer and Ysgol Uwchradd Bodedern staff and pupils</p>
<p><b>Monitoring and Evaluation</b></p>	
<p><b>What monitoring is in place for the project?</b></p>	
<p><b>Trial report</b></p>	
<p><b>Headline results</b></p>	<p>Initial results were positive. Sheets of the recycled HDPE were produced enabling the pupils to create cut out shapes to be used in making various items that could then be sold at school events. Initially the idea was for key rings and garden markers but more ideas were forthcoming during these initial sessions. Once the pupils get more adept at the process then the more intricate the finished product. There was talk of creating Christmas tree decorations and biro casings. Reducing the size of plastic going into the panini press was one way of creating a better quality final sheet (about 5mm is a perfect size). Although the staff and</p>

	<p>pupils were asked to bring bottle tops into school for the project the school will also take part in litter picks around the village and utilising any HDPE plastic they find as part of this project.</p> <p>Ysgol Uwchradd Bodedern recently became a Litter Free Zone.</p>
<b>Data and outcomes (including any unexpected outcomes)</b>	<p><b>*Unfortunately one of the members of the school staff became ill and was off school for 6 weeks so the project was put on hold. The aim is to continue this project once the pupils are back in school in September 2023</b></p>
<b>Comms</b>	<p>No Comms due to trial only partially completed due to Ysgol Bodedern staff member off sick</p>
<b>Lessons</b>	<p>From the initial trials it was seen that 6 to 7 minutes was the best time to achieve the best results. Also smaller pieces of HDPE were best to get the best results.</p>
<b>Opportunities</b>	<p>The school is equipped to continue to create new products from HDPE plastic. This reduces the amount of waste and recycling being sent from the school and demonstrates to pupils how they can make innovative recycled products. This also provides an opportunity for the school to generate an income.</p>