



# Where My Wellies



## Take Me

### Entry Task

Explore a range of maps to identify what I know and want to know about map reading.

What is ergonomics and why do we analyse existing products?

Can I research how products have evolved to be more ergonomically designed?

Can I produce a design criteria for my bird box considering FLUMPS?

Can I evaluate a range of existing bird boxes, discussing their durability and utility? Can I identify their primary and secondary functions?

Can I use equipment safely to practise joining and fastening techniques, considering their purpose/

Can I work collaboratively to gather materials and discuss design choices to achieve desired aesthetics? Can I produce an annotated sketch of my 3D design using isometric technique?

What to revisit?  
Year 2/3 — Human and physical geography aspects  
Year 1-3 — Map symbols and how to navigate a map.  
Year 3 — Conducting product research  
Year 3 — Evaluating against a design criteria

### Threads

Exploration, navigation,

Why do architects use CAD, what are the pros and cons? Can I use CAD to produce my final design of my bird box and present my ideas to my peers?

Recalling safety precautions, can I use measuring, cutting and joining techniques, to construct my bird box?

### Celebration/Evaluation

Create a presentation to explain similarities and differences between our school grounds and Martin Mere, presenting to a different year group.

### Curriculum Passport Challenge

Go on a walk through the woods and enjoy a picnic together.

### Key Vocabulary

As a geographer, I will use...

Glasshouse, wind generator, coniferous trees, non-coniferous trees, bracken/heath/rough grass, marsh, orchard, camping/caravan site, garden, nature reserve

As a design technologist, I will use...

Ergonomics, existing products, durability, utility, FLUMPS, design criteria, aesthetics, 3D, isometric technique, computer aided design CAD, safety precautions, prototype, cutting and joining techniques

Assemble, prototype, cutting, shaping, finishing, joining, reinforce, structure, assemble, form, design criteria, existing,

### Big Question

What do OS maps tell us about physical and human features? How can they be used for navigation?

How do the physical geographical features of the nature reserve compare to our local area/school ground?

How do the human geographical features of Martin Mere compare to our local area/school ground?

Observe, measure and record life in Martin Mere pond. Create a graph to show life forms found and compare to school grounds?

Can I create a sketch map to identify the features in Martin Mere?

Visit, navigate, explore and observe Martin Mere, photographing human and physical features.

Can I use the 8 points of a compass to give directions across an OS map? (Navigate)

What are different evaluating techniques? Can I select and carry out an appropriate evaluation? Is my product fit for purpose? What may I change or improve?

How does an OS map of Martin Mere differ to an OS map of our local area?

Can I explore the local area and school grounds to identify human and physical features?

Can I explore an OS Map of the Martin Mere? What map symbols can be identified? (see vocabulary)

Can I create a sketch map to identify the features in the school grounds?

Observe, measure and record life in the school pond. Create a graph to show life forms found in a single pond sample.

DRIVER SUBJECTS ARE GEOGRAPHY & D.T