Lesson Support for Stage 4: Estimating and Checking

Lesson Duration: Approx. 2[i]+ hours

Learning Objectives:	▪ To estimate and measure accurately
Areas of Learning and Experience:	The steps within this stage offers opportunities to develop: ▪ **Mathematics and Numeracy** - Geometry focuses on relationships involving shape, space and position, and measurement focuses on quantifying phenomena in the physical world
Cross-curricular skills:	The steps within this stage offers opportunities to develop: ▪ **LCF –** ○ **Numeracy**: Learning about geometry helps us understand, shape, space and position, and learning about measurement helps use quantify in the real world
Guiding Ideas / Possible questions to ask:	How will you estimate 5m? Can we break it down? What will you use to measure?

Introduction / Starter

Explain to learners that they will be creating a life size outline of a roundhouse in the school yard.

Ask the learners to look at some object in class – cupboards, tables, whiteboard – what do we estimate these to measure?

Learner Activities	Differentiation	Achievement outcomes
Step one		
Ask the learners to get into groups of 4, then estimate 5m by marking out 2 points with chalk. What would we measure the estimate of 5m with? Ask the learners to measure to see how accurate they have been.	Mixed ability groups.	▪ To estimate accurately
Assessment Opportunities		
▪ Ask the learners how far out their estimate was? ▪ If they were more than 1m away, ask learners how they could improve next time – chunking 1m lengths?		
Step two		
Ask the learners draw a circle with 5m diameter from the accurately drawn 5m points to create a roundhouse	Mixed ability groups.	▪ Draw accurately
Assessment Opportunities		
▪ How accurate is the circle? ▪ What could the groups do to more accurately draw the circle – two 5m points through the middle of the circle.		
Step three		
Now ask the learners to place items and furniture in this circle to represent items that would have been found in a Celtic Roundhouse.	Mixed ability groups.	
Assessment Opportunities		
▪ Are the items that learner place in the circle representative of the correct items that would have been in a Celtic roundhouse?		

Plenary

Ask the learners the questions below:

- Are you surprised by the lack of room in a roundhouse?
- How many people would comfortably fit in here?
- Would you like to live in a roundhouse?

Key Vocabulary:

- Estimation
- Accuracy
- Measurement
- Diameter
- Radius
- Symmetrical

Resources / Supporting files:

- Chalk
- Meter Ruler

[i] **The steps detailed in this lesson plan could be split over a number of lessons, rather than one long lesson if preferred.**