



Baby in the bag!

In our play, our characters try to move on from the confusing events by sending the reborn Taliesin downriver. But they struggle to find the right carrier. Steph in particular grapples with seeing why size is relevant. Let's look at estimations.

Step 1: Start by watching this clip:



Step 2: Now show the children a bag. Tell them you're going to use it to carry some things home from class. The children need to estimate if certain objects from the class will fit in the bag or not.

Step 3: Show the children 8 different objects. Ask them, *without placing the object in the bag, can we guess if it can fit in there?*

They will likely answer yes and guesses can be made. **No placing the objects in the bag yet, only guessing.**

Numeracy Framework

Use knowledge and practical experience to inform estimations.

Progression

Statements

Mathematics

I can estimate and measure, using non-standard units, before progressing onto standard units.

Step 4: Introduce the word “*estimate*” explain that an estimate is better than a guess, because we can use information we already know to help us come to a decision.

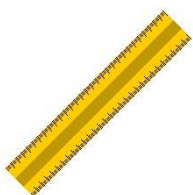
If the children are already using centimetres, skip to Step 6.

Step 5: Encourage the children to think of ways they can compare the bag with the items.

Try to encourage ideas such as “*I can check how long it is against my fingers,*” or “*I can check how many Lego blocks could be built across it.*”

Once the pupils have realised that they can compare the length of the bag to that of the object, allow them to measure the 8 items and the bag, in pairs, using whatever method they can come up with.

Ask them to estimate which items will fit and which won't.



Step 6: Once the initial estimates have been made, use their methods to explain why we use standard units.

Are your fingers the same length as your friend's? Is every Lego block the same? How precise were you able to be? Did you fingers move in between objects?

Step 7: Show the children how we use a ruler, starting at 0 and measuring to the nearest whole cm initially.

Measure the bag as a whole class activity to confirm comprehension. Finally, ask the children to measure each

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object, what is their new estimate? *Which objects will fit and which won't?*

Use the attached worksheet to record their findings and estimates. Draw each object, measure each object, estimate if it can fit in the bag.

Picture card Copyright Free (credit):

<https://www.vecteezy.com/free-vector/ruler-measure>

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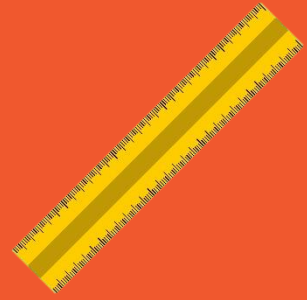
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In the Bag Challenge



Teacher's Bag

Length of opening

_____ cm

Length of the bag

_____ cm

Object 1	Length (cm)	Object 2	Length (cm)
	Will it Fit?		Will it Fit?
Object 3	Length (cm)	Object 4	Length (cm)
	Will it Fit?		Will it Fit?
Object 5	Length (cm)	Object 6	Length (cm)
	Will it Fit?		Will it Fit?