**** **TAPS Cymru Plan for Focused Assessment**

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| **Science and DT topic:** Materials (or Forces) | Year 3Age 7-8 | Title: Egg drop packaging |
| **Enquiry Focus**Evaluate outcomes against success criteria | **Concept context** Properties of materials relating to their uses |
| **Assessment Focus*** Can children explain how the approach/method was successful?
* Can they describe any amendments or suggest how the approach/method could have been improved?
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| **Activity** *Today we will be engineers.*Gather a selection of materials for the children to design and build a package which will safely transport eggs without breaking. Select a context to share with the children e.g. egg drop onto island, ‘eggstranaut’ landers.Discuss how to make a fair comparison between the egg packaging designs - height to drop from and surface to drop onto.Agree time, resources available and whether there is a group limit (e.g. 1x balloon, 1x plastic cup, paper, tape, 1 x carrier bag/box, 1x bubble wrap/foam/shredded paper).Test each group’s design and reflect on success criteria.Ask the children to make suggestions for future improvements, explaining why.Focused recording: label photo or diagram noting successes, amendments and improvements.**Adapting the activity** **Support:** Limit the amount of resources to choose from.**Extension:** Try other ways to test the packaging. Construct a safe package using less resources. Investigate traditional packaging materials and compare effectiveness to own design.**Other ideas:** Provide a basic kit and budget with a list of additional components which they can ‘buy’. Challenge the children to ‘spend’ the least amount of ‘money’.**Questions to support discussion*** What type of materials would provide suitable protection?
* How big does the package need to be?
* Should everyone test their packages in the same way?
* Are there any safety factors we need to consider?
* How will we know if the packaging is successful?
* What have you changed about your design? Why?
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| **Assessment Indicators** **Not yet met:** Can say if egg landed safely or not, but does not link this to properties of materials or the way their design was constructed.**Meeting:** Apply their knowledge of materials when evaluating. Explain amendments to design and how these impacted on protecting the egg.**Possible ways of going further:** Ongoing evaluation during designing, making and testing. Makes links with real life packaging designs.  |



Teacher box 7 - time to reflect. See TAPS pyramid for more examples.