



Plan for Focused Assessment of Science

Topic: Properties and	Year 5		Title: Champion tape
changes of materials	Age 9-10		
Working Scientifically		Conceptual Knowledge	
Review: Report and present findings		Give reasons, based on evidence from	
from enquiries, including conclusions		comparative and fair tests, for the	
and explanations of degree of trust in		particular uses of everyday materials	
results			

Assessment Focus

- Can children recommend a champion tape?
- Can children explain how they have come to their conclusion?

Activity Today we are going to be materials engineers.

Challenge children to design a test to find the stickiest tape. Provide children with a range of sticky tapes and a range of testing/measuring instruments (e.g. rulers, weights, timers, newton meters). Give groups time to discuss how they will do this to get results which they can trust.

Groups/individuals could present their champion material, explaining how the scientific evidence makes it a champion, and what it could be used for.

Adapting the activity

Support: Support with fair test. Have a prompt sheet or results table ready if needed.

Extension: Ask children to consider how much they trust their results. Repeat readings

Other ideas: Stretchiest fabric or other properties of materials.

Key Questions

- How will you test for stickiness?
- Do you think it needs to be a fair test?
- How will you ensure it is a fair test?
- How will you compare the tapes? How will you know which is better?
- How will you ensure that your test is accurate?
- What could your champion tape be used for?

Assessment Indicators

Not yet met: Can describe which tape is the 'best' but is not able to explain how the results lead to this conclusion.

Meeting: Can explain which tape is best and why their findings are reliable (used repeat readings) and fair (identifies variables which should be kept the same), e.g. we used the same amount of weight to make sure it was fair, the same person observed. Suggests uses for their champion material.

Exceeding: Recommendations are based on results and utilise scientific concepts appropriate for a scientific audience. Evaluates their findings, including recognising anomalies.