

Which join actually holds?

engineering

What you need: equal card strips about 15 cm long · sticky tape roll · split pins · round-tip scissors · scrap card for triangular gussets · 1c coins or small metal washers · string and light paper cup or clip loop for hanging loads · hole punch · scrap paper for load jottings · Investigation Journal page · optional pre-dried PVA join samples (extension only)

Words to use

Join · Firm join · Pivot join

Our question

Which join holds the most load before it fails, and how does each join fail?

I predict...because...

Words to sort

sticky tape join · split pin join · triangular gusset join

Does this join lock the parts so they cannot swing, or does it let the parts pivot around the joint?

locks the parts	lets the parts pivot

What I found out