

DT Year 3 - Mechanisms



INTENT

The children will be using the K'nex Education STEM Building Solution box set building models that involve levers and pulleys. The children can work in groups to make the 7 different models with an emphasis on applying their knowledge of the transference of forces to create an end working product.

Disciplinary Knowledge <i>How have experts expressed quality and value throughout history?</i>	• I can design with purpose by identifying opportunities to design. • I can make products by working efficiently (such as by carefully selecting materials). • I can refine work and techniques as work progresses, evaluating the end product design.
Substantive Knowledge (Practical) <i>Methods, techniques, media, materials.</i>	• I can use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears).

Vocabulary

Mechanisms STEM models

pulleys levers force pull

push function product

