

Year 6 Design Technology

Moving Parts

Sticky Knowledge

Designers use cross-sectional and exploded diagrams and CAD (computer aided design) programs to show the detail of their designs. Exploded diagrams show the component parts disassembled so that each part can be clearly seen. Prototypes are the first produced version of a design.

There are many different types of cams, all creating different movements: round cams create a steady, continuous movement; snail cams are stationary for a half turn before gently rising and suddenly falling; pear cams are stationary for half a turn before gently rising and falling.

Evaluation can help us make sense of complex processes and outcomes. It is a good way of exploring options and figuring out what might need to change. It provides evidence-based judgements about the effectiveness of the process or product. Information used during the evaluation stage must be gathered, ordered and judged in a systematic and methodical way.

Kazuaki Harada is a key individual in design and technology, helping to evolve the use of cams. Cams can now be found in engines, bikes and even electric toothbrushes and other electrical products.



Famous Work

Exercise (2006)
This is one of Harada's favourite creations. The automaton features a pig lifting dumb bells.

Famous Person

Kazuaki Harada is a contemporary Japanese woodworker who creates wooden automata that perform all sorts of stunts simply by the turn of a handle. Harada only began making automata in 2002.

