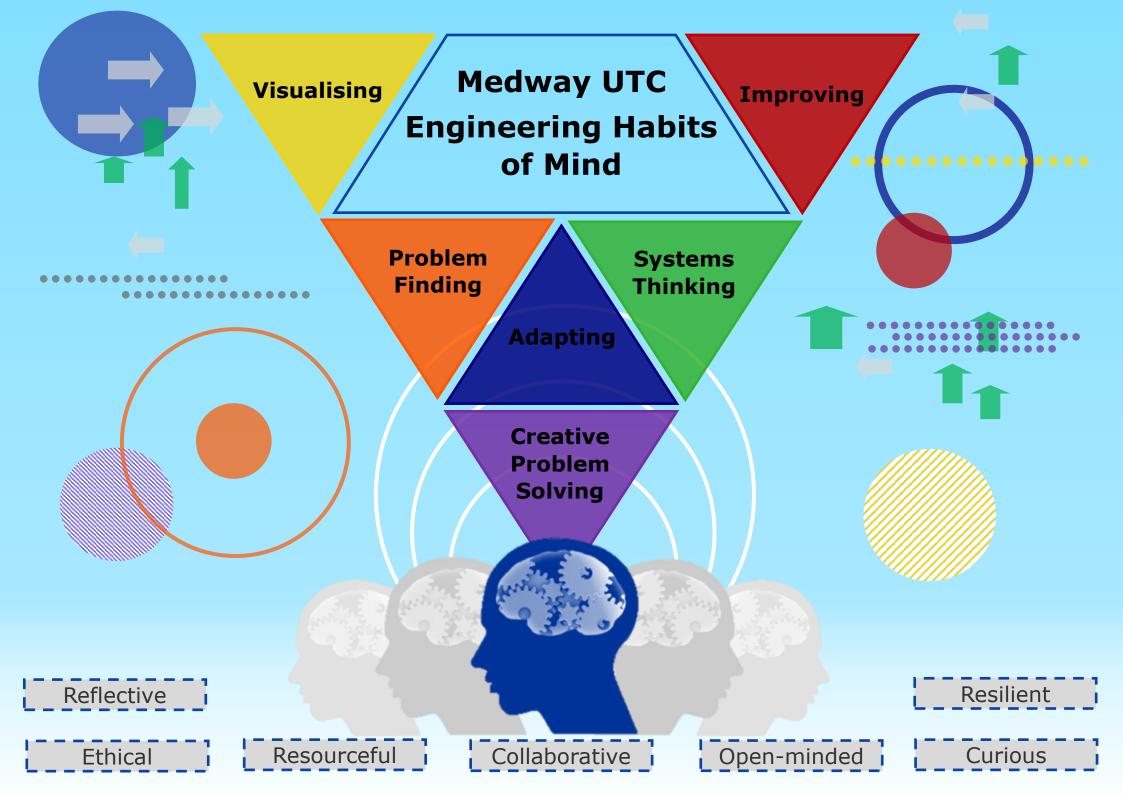




This resource has been provided courtesy of Medway UTC, Chatham, Kent and was prepared while the school was involved in the 'Thinking like an Engineer' project 2014-2016. Please acknowledge the school if you use this material.

Website: http://www.medwayutc.co.uk/





relentlessly trying to make things better by experimenting designing sketching conjecturing thought-experimenting prototyping



testing

analysing

reflecting

rethinking

changing both physically and mentally



#### being able to move from abstract to concrete

## manipulating materials

#### mental rehearsal of physical space and of practical design solutions



#### seeing whole systems and parts and how they connect

pattern-sniffing

recognising interdependencies

synthesising

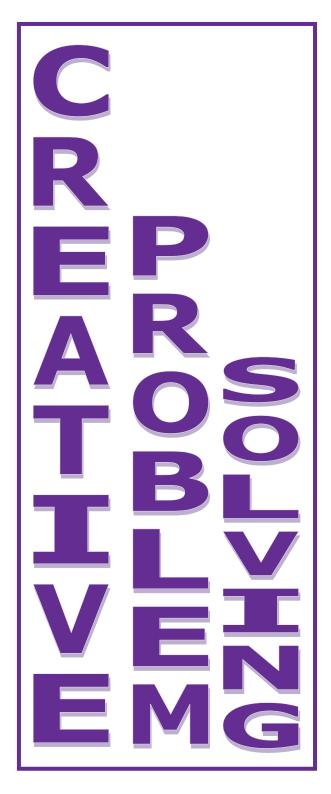


## clarifying needs

# checking existing solutions

## investigating contexts

verifying



#### applying techniques from different traditions

# generating ideas and solutions with others

## generous but rigorous critiquing

### seeing engineering as a 'team sport'