



# **I M P R O V E M E N T**

**relentlessly trying to make things better by experimenting**

**designing**

**sketching**

**conjecturing**

**thought-experimenting**

**prototyping**

# **A D A P T I N G**

**testing**

**analysing**

**reflecting**

**rethinking**

**changing both physically  
and mentally**

**G  
Z  
H  
S  
H  
A  
F  
C  
S  
H  
V**

**being able to move from  
abstract to concrete**

**manipulating materials**

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

**S**  
**Y**  
**S**  
**T**  
**E**  
**M**  
**S**  
**T**  
**H**  
**I**  
**N**  
**K**  
**I**  
**N**  
**G**

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

**pattern-sniffing**

**recognising interdependencies**

**synthesising**

**P  
R  
O  
B  
L  
E  
M** **F  
I  
N  
D  
I  
N  
G**

**clarifying needs**

**checking existing solutions**

**investigating contexts**

**verifying**

**C  
R  
E  
A  
T  
I  
V  
E**  
**P  
R  
O  
B  
L  
E  
M**  
**S  
O  
L  
V  
I  
N  
G**

**applying techniques from  
different traditions**

**generating ideas and  
solutions with others**

**generous but rigorous  
critiquing**

**seeing engineering as a  
'team sport'**