

HOW TO SEE (AND HEAR) SCIENTIFIC THINKING - A STARTER KATA

Learner's name: _____ Coach's name: _____ Date: _____

1 CURIOUS? Are they motivated to learn?



Uninterested
Closed mind
Bored
'Ticking the box'
Distracted

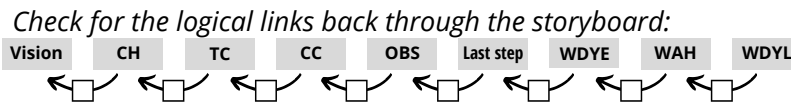
Interested
Open mind
Excited
Keen
Motivated



2 METHODOLOGICAL? Do they have a systematic approach?



Cluttered
Confused
Haphazard
Hit-or-miss



Organised
Logical links
Clear
Deliberate



3 EVIDENCE BASED? Are they focused on facts and data?



Subjective
Opinions
Biases
Assumptions
Speculation

Objective
Metrics
Truth
Reality
Observation



4 SPECIFIC? Are they clear and focused?



Vague
Verbose
Loose
Wandering
Avoiding detail

Clear
Concise
Succinct
Focused
Precise



5 HYPOTHESIS DRIVEN? Could they prove it true? And false?

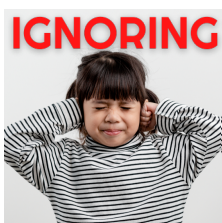
Challenge Testable?
 Falsifiable?

Target Condition Testable?
 Falsifiable?

Obstacle Testable?
 Falsifiable?

What they expect Testable?
 Falsifiable?

6 LEARNING? Are they building new knowledge?



Closed mind
Stubborn
Dogmatic
Defensive

Open mind
Discovering
Growing
Humble

