

The Psychology of Teaching tactics

Pedagogy and wargaming



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Teaching tactics

- USMC: 'We teach good judgement'
- Indicators of good practice
 - Wargaming *ticks* a lot of these boxes
- Tactics as a cognitive skill
 - Requires reasoning

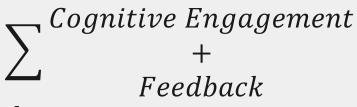




Indicators

Judgement

 Shaped and honed



- Speed
 - -Verify intuitive decision-making
- Guile
 - -Break with norms and assumptions

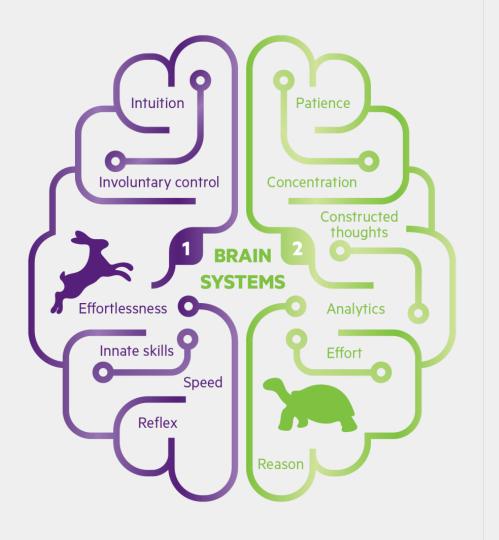


Pedagogy (condensed summary)

- Students teach themselves
 - Construct their own understanding
- Feedback
- Teachers must attend to what students are thinking
 - Design tasks that help students internalise knowledge
 - Enable cognitive engagement



When teachers see learning through the eyes of the student; When students see themselves as their own teachers





Learning: Cognitive processes

- Learning a (cognitive) skill is to transform system 2 processes into system 1 processes
- System 2 = Cognitive engagement
 'hurting thinking'
- Time required for this is subjective although there are averages, e.g.:
 - Driver's license
 - Shooting skills

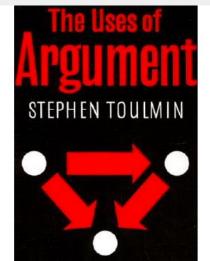


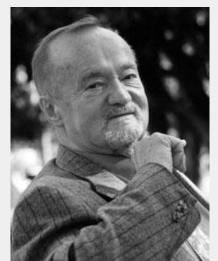
Judgement

 $\sum_{\substack{\text{Cognitive Engagement}\\ +\\ Feedback}}$

- Cognitive engagement
 - (Socratic) questioning
 - Argumentation
- Feedback
 - Discussion
 - Visualisation









Judgement

Shape

- Analysis of:
 - History
 - Experiences
 - Cases
 - ...



Judgement

Awareness/ visualisation:

- Argumentation
- Discussion
- Reflection

Hone

- Apply judgement through:
 - Tactical problems
 - Field exercises
 - TDGs
 - Wargames

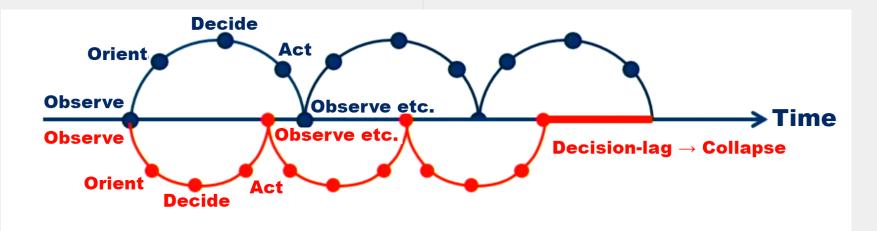


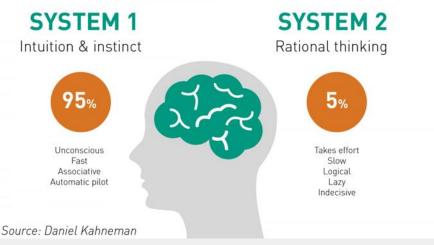


Maneuver Warfare

 Speed in decision-making is essential

- Current doctrine for
 - USMC and Norwegian Army
 - NATO and British Army as the manoeuvrist approach









Decision-making: Cognitive processes

- Intuitive decisions depend on experience
 - Heuristics = mental shortcuts
- Bias and systematic errors, e.g.
 - Confirmation bias
 - Cognitive ease
- Activate system 2
 - "What did you not choose?"
 - Verify intuitive solution



Force vs. Guile



STRATEGICUM

ήθεος το τοξου τεταμένου έν τω ίδιω θηκαρίω, έαν πλα-τύ έςτιν, η έν άλλω ήμιθηκα-τύ έςτιν, η έν άλλω ήμιθηκα-τύ έςτιν, η έν άλλω ήμιθηκα-τώ όλι τέτω γνομένω, και δητλαμβάνεως και έ κονταρίε έκ δ νώτω άναβαςαζομένε. Έι το Έχαιν μεν το δόξον εν ζώ βηκαρίω, κραζείν η Το κουζάριου, καισυνοίμως 2000)ίθεωται αύδο ένδω νώδω, σπιλαμβά-VEOS 3787658. Taula 3 xaλόνες και έν Ιω οδοιπορείν Ιδς σεαλώ Ιας έν Ιη ιδία χώρα όπι-ηηδευειν επάνω των ίπωων ποιну. Сн тятя уд най й об'об ален- a. md'sws благиета, най ог in- tur. שוא סטידינו ביידע.

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Force vs. Guile

Raise awareness of self imposed restrictions

- Society/environment that fosters rule based thinking
- Doctrine \rightarrow Dogma
- Break norms/assumptions
 - Within international law

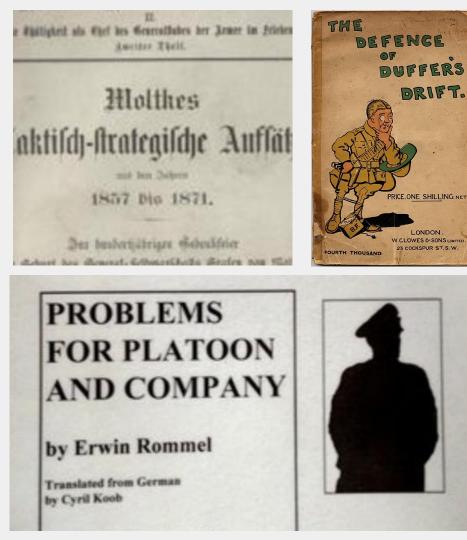


DEVELOPING AN AMBUSH MENTALITY

Perhaps the most common tactical tool for gaining advantage is the ambush. All Marines are familiar with an ambush as a type of combat patrol.¹⁴ In maneuver warfare, ambush takes

g, and the *development of the am*maneuver warfare tactics.

s probably not new to most of us.





Historical precedence

Tasks:

- 1887-1894: Moltke his general staff
- 1894: French translation and imitation
- 1934: Rommels tactical problems
- 1939: Infantry in battle (US Army)
- 1994: Mastering Tactics (USMC)

'Dreams':

- 1888: Ein Sommernachstraum
- 1888: Ein Wintertagswirklichkeit
- 1904: Defense of Duffer's Drift
- 1922: Booby's Bluffs
- 1993:Defense of Hill 781
- 1995: Infantry Combat (*Choose Your Own Adventure*)
- 2001: Defense of Duffer's Drift's BSA
- 2009: Defense of Jisr al-Dorea



Wargaming

✓ Judgement

- Shape and hone

 $\sum_{\substack{\text{Feedback}}}^{Cognitive Engagement}$

Speed

- Verify intuitive decision-making
 Guile
 - Break with norms and assumptions





Relevance today





Thank you for your attention

«If, in addition to experienced judgement, a special mental quality is required, it would be cunning or shrewdness.» - Clausewitz