

KDC-Mainport Schiphol program

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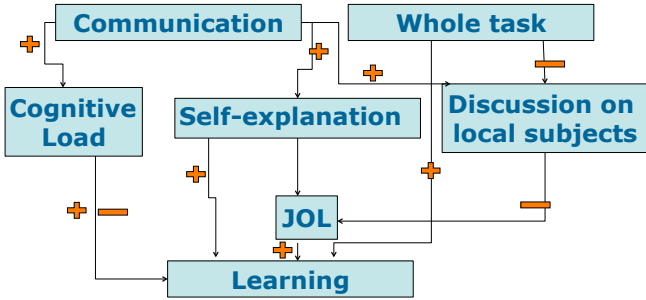
KDC-Mainport Schiphol program Judgements of Learning in Collaborative Learning Environments

Collaborative learning environments
 Collaborative learning environments have been proven to benefit individual learning. The assumption is that the communication between learners, the sharing of cognitive load and the whole task presentation all benefit individual learning processes.
However
 For successful Self Regulated learning, adequate Judgments of Learning (JOL) are necessary. What is the effect of a collaborative learning on JOL?

Communication
 Self explanation and verbalizations have been proven to increase learning and transfer.
However
 Do people have access to their cognitive strategies? Communication may increase cognitive load. Discussions may focus on local task aspects.
and
 How does communication influence JOL?

Cognitive Load
 In collaborative learning environments cognitive load is shared between learners. When cognitive load is shared, complex whole tasks may be presented to novice learners.
However
 When the load is shared, do learners develop an illusion of competence?

Whole Task/Part task
 Whole task approach has been proven to lead to better learning and transfer than part task presentation.
However
 If the whole task is distributed across learners, does the benefit for learning remain?



Pre-test Homogenous teams of 3 Control group: virtual teams of 3	Training environment (coll., individual) x Task presentation (part task x whole task) x Task selection (controlled, learner control, virtual)	Post test Cognitive load (mental effort) Distribution of cognitive load Content and amount of discussion JOL Individual & team performance
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