

## **Coding scheme for analysing collaborative activities in the group learning space**

Winter, J. W. (2018). Analysis of knowledge construction during group space activities in a flipped learning course. *Journal of Computer Assisted Learning*, 34(6), 720-730.

Based on Audio records

Cognitive: Asking questions

CHV1 Asking questions that do not require an explanation (facts or simple questions)

CHV2 Asking questions that require an explanation (comprehension or elaboration) x

CHVER Verification or asking for agreement

Cognitive: Giving answers

CHG1 Answering without explanation

CHG2 Answering with explanation (using arguments or by asking a counterquestion) x

Cognitive: Giving information

CI1 Giving information (an idea or thought) without elaboration

CI2 Giving information (an idea or thought) with elaboration x

CIT Referring to earlier remark/information

CIE Evaluating the content (summarizing/concluding)

AN Accepting contribution of another participant without elaboration

AY Accepting contribution of another participant with elaboration x

NAN Not accepting contribution of another participant without elaboration

NAY Not accepting contribution of another participant with elaboration x

Affective

A Positive, neutral, or negative emotional reaction to another participant or with regard to the task

Regulative

RV Planning, monitoring, and evaluation of the task or group process

RINS Instructing; one participant instructs another participant

Facilitative

TR Teacher support is requested by one or more of the participants

TI Teacher provides instruction to one or more of the participants

Other

AND Non-task-related remarks, unfinished sentences, or interactions that did not fall into any other category

READ Participants reading instructional content text aloud