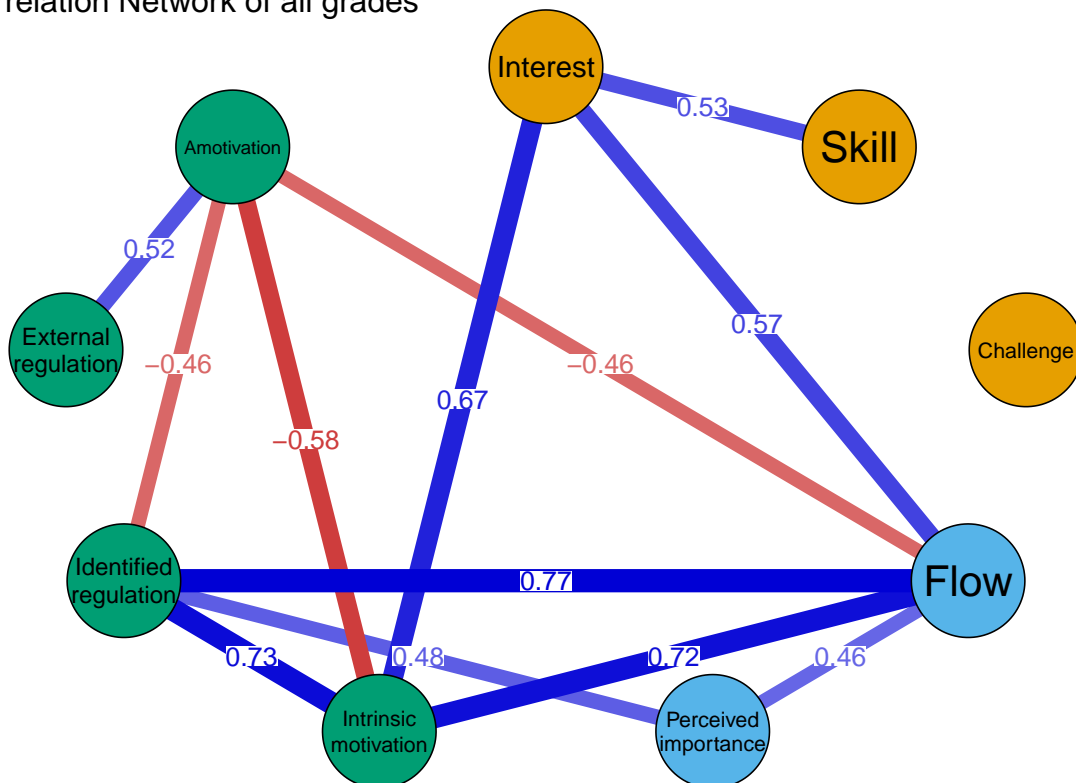# Network Analysis

In these networks, each node (circle) represents a variable, and the edges (lines) represent the strength of the relationship between the variables. The thickness of the edges represents the strength of the relationship. The color of the edges represents the direction of the relationship (blue for positive and red for negative).

The edges are calculated as Spearman correlations. The networks are bootstrapped and thresholded at a correlation strenght of 0.4 and a significance level of 0.002 after Bonferroni correction (edges, or correlations, above these values do not appear on the networks)

Nodes are coloured and grouped by the constructs they represent. The constructs are: Yellow for SES (Situational Engagement Scale), blue for Flow, and green for SIMS (Situational Motivation Scale).
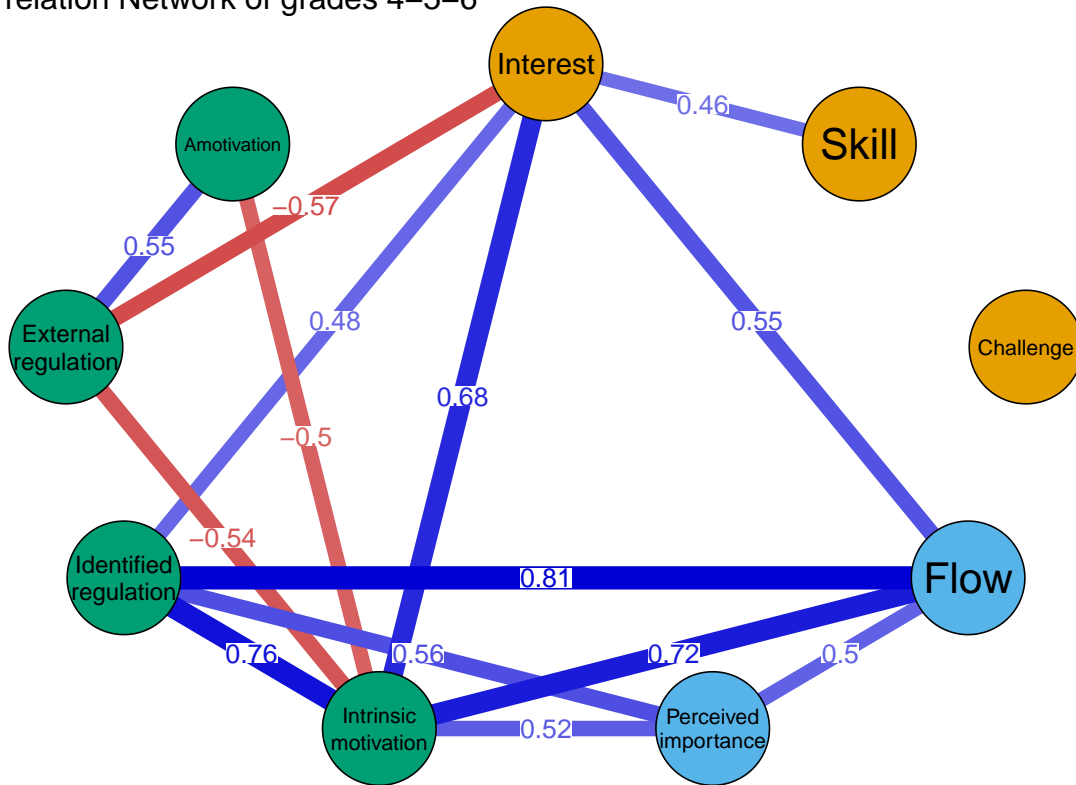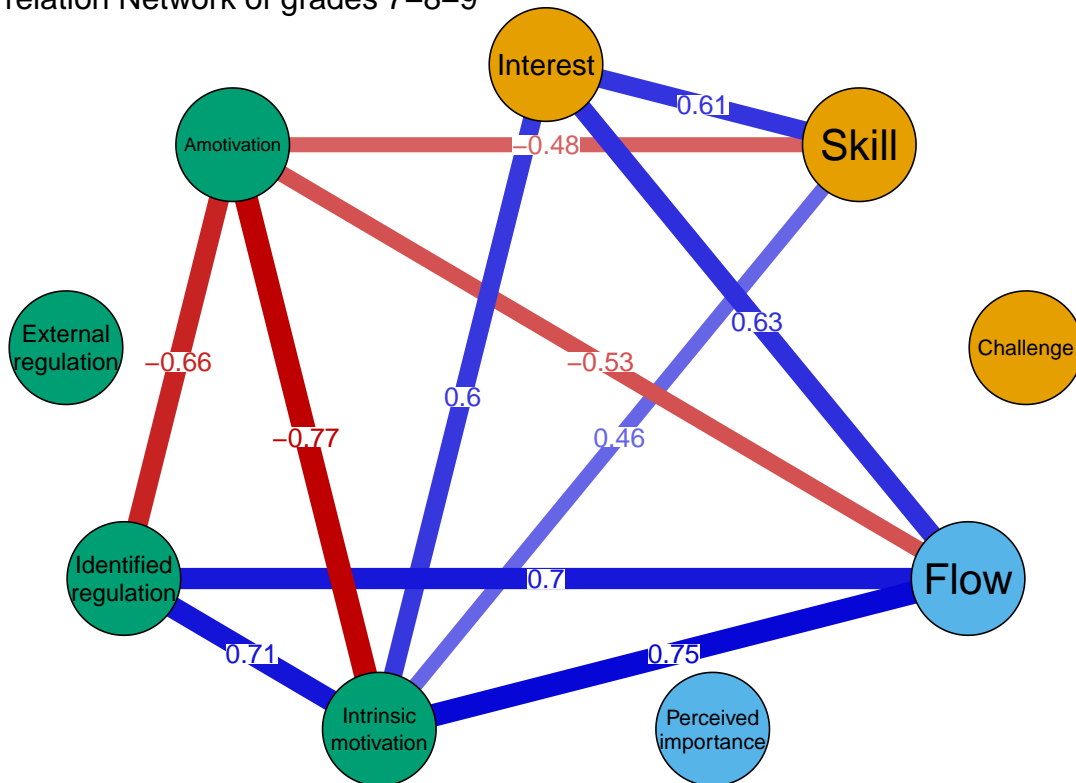
## All grades

Correlation Network of all grades

# In two groups (grades 4-5-6 and 7-8-9)
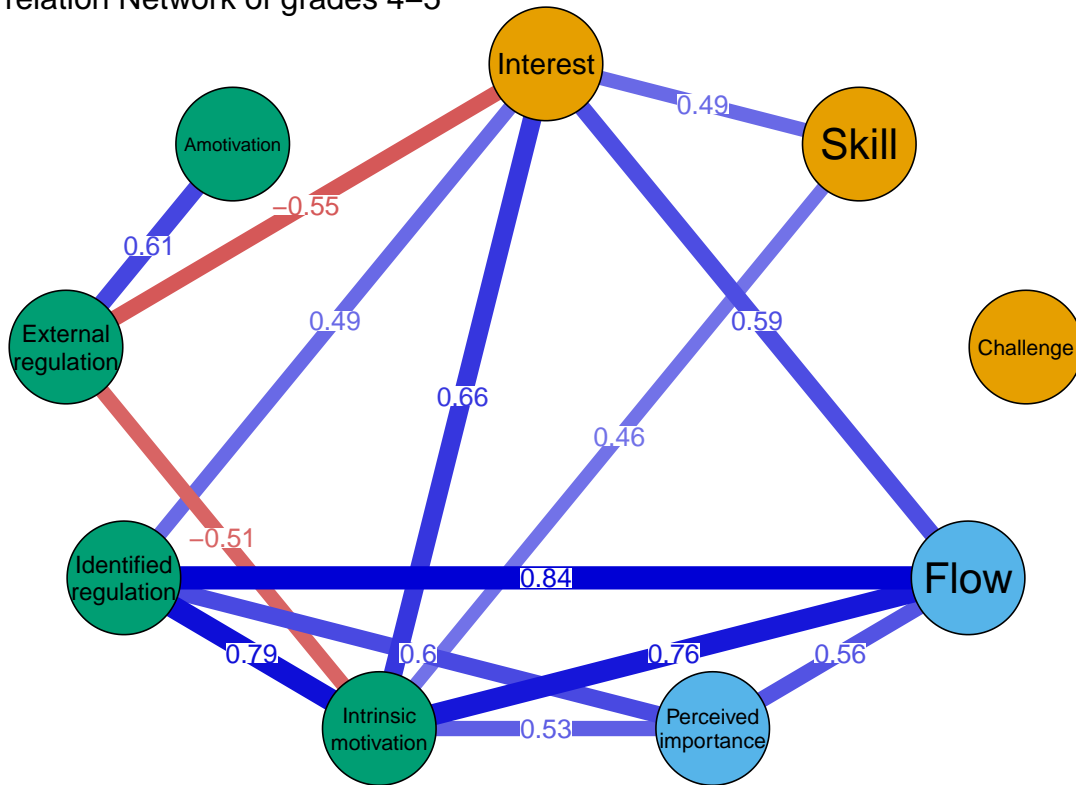
Correlation Network of grades 4−5−6



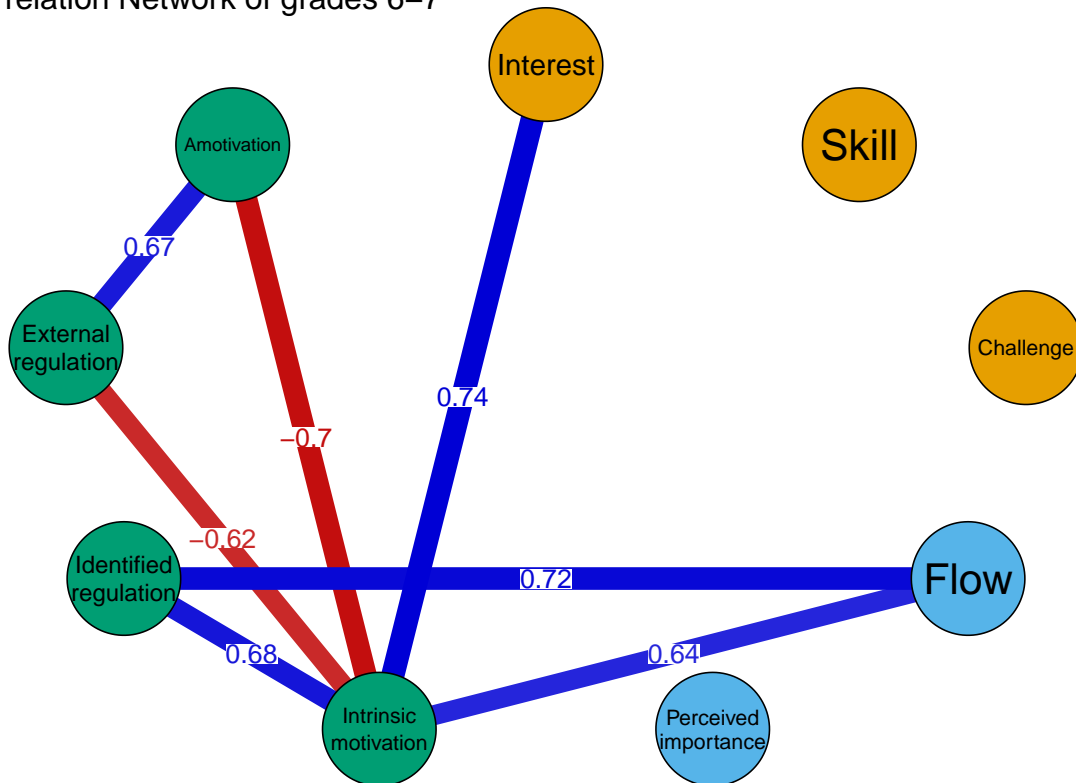Correlation Network of grades 7−8−9

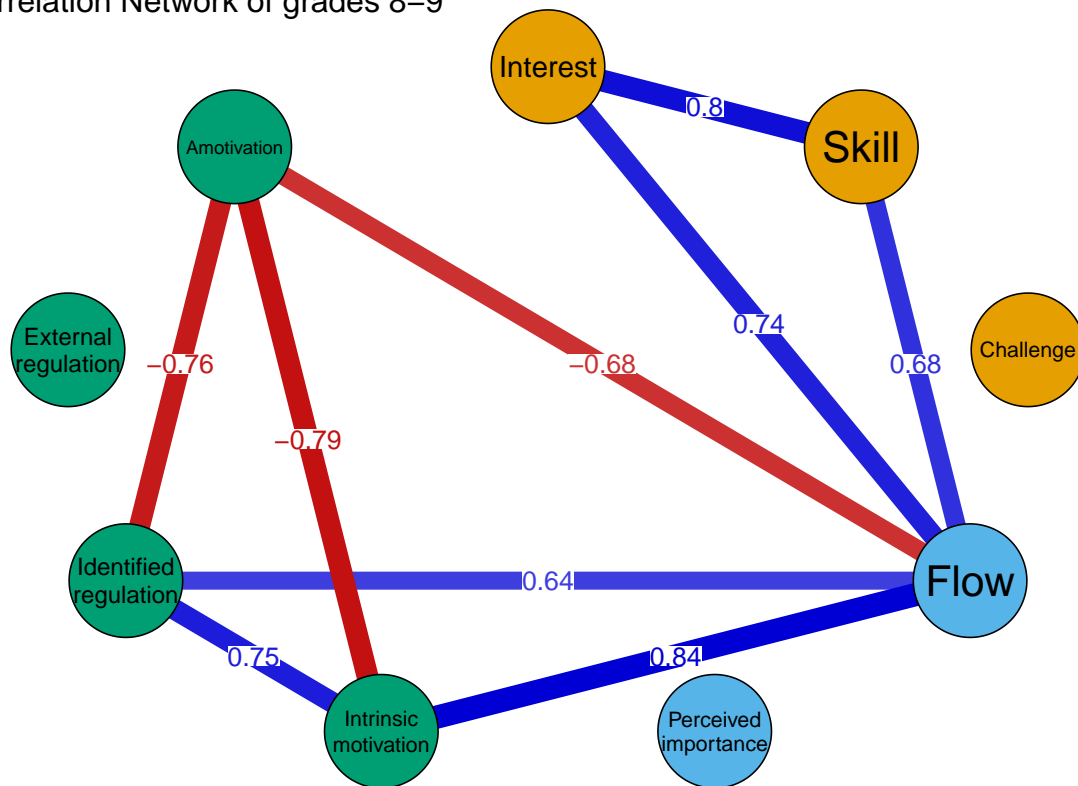# In three groups (grades 4-5, 6-7, 8-9)



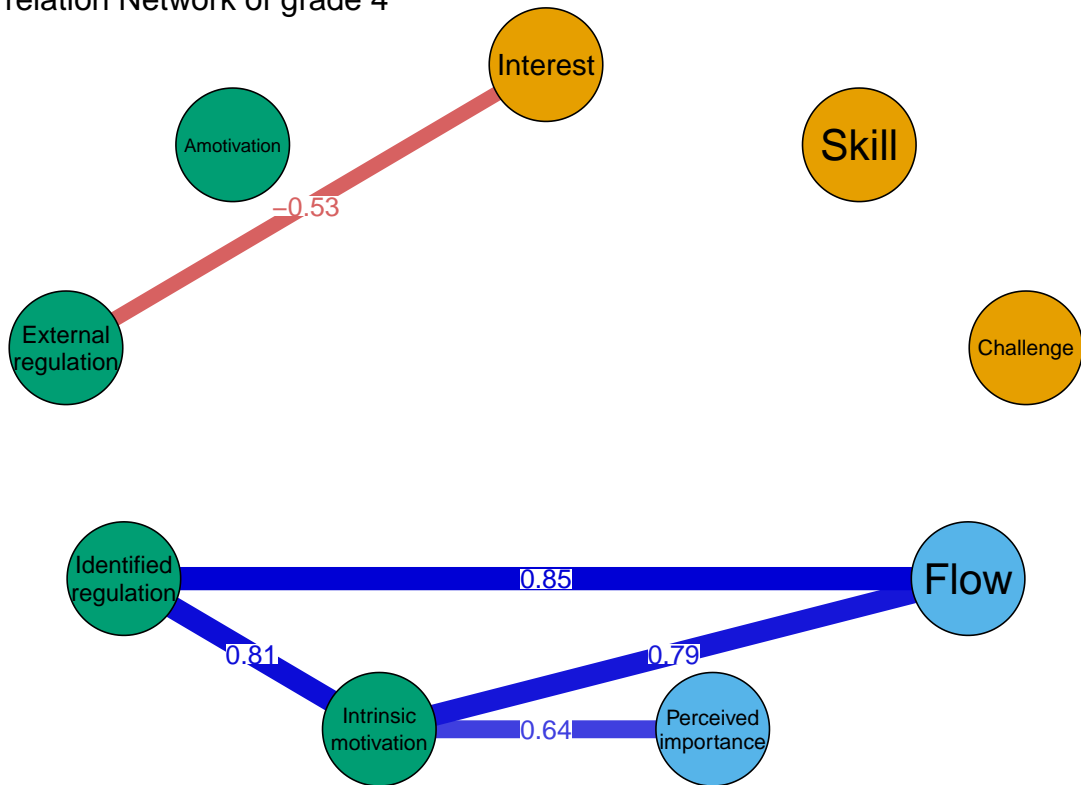Correlation Network of grades 4–5



Correlation Network of grades 6–7

Correlation Network of grades 8−9
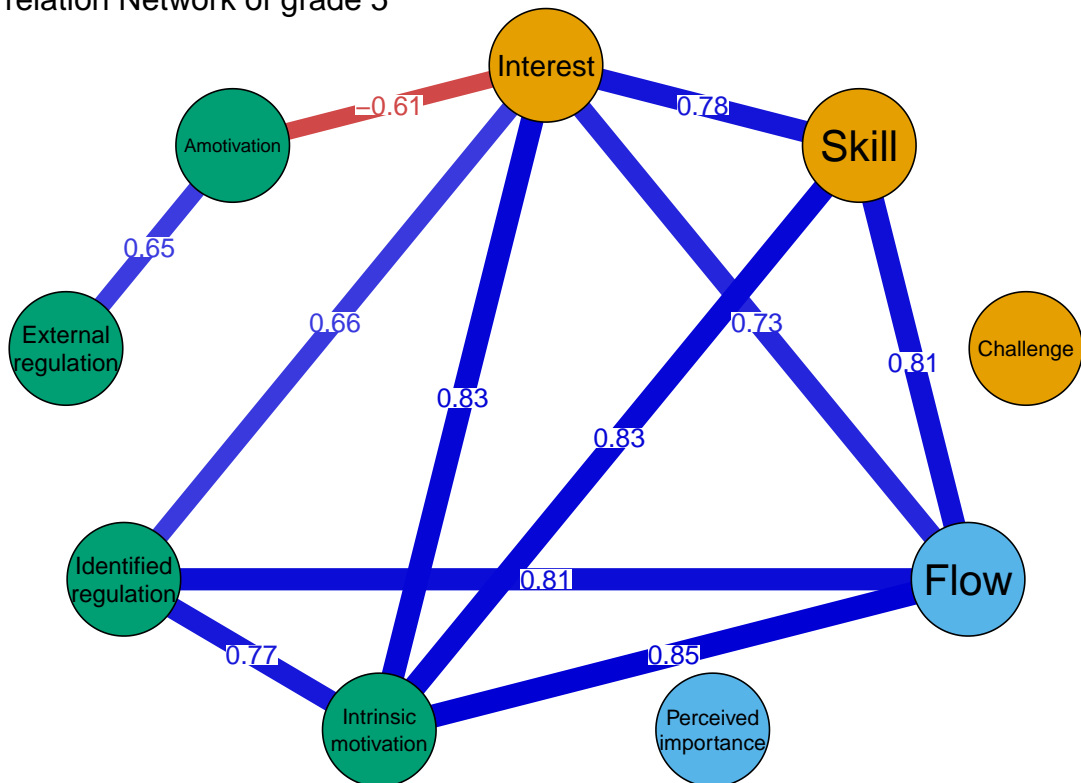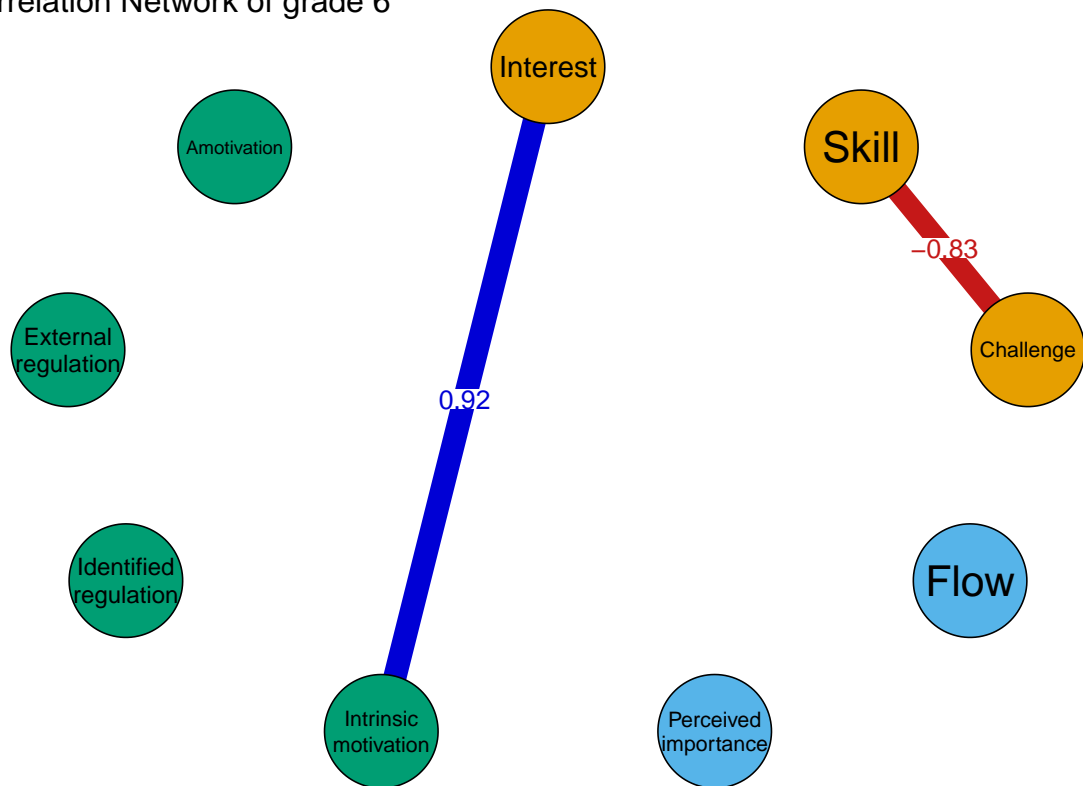
## Per grade

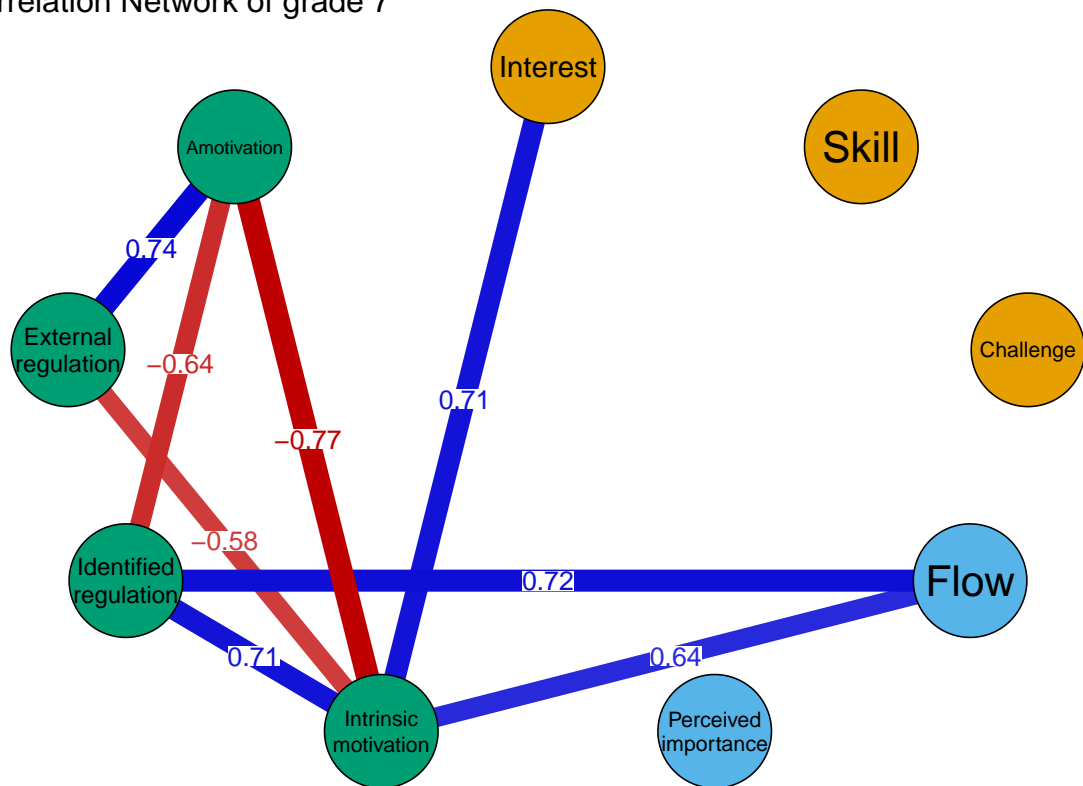### Correlation Network of grade 4


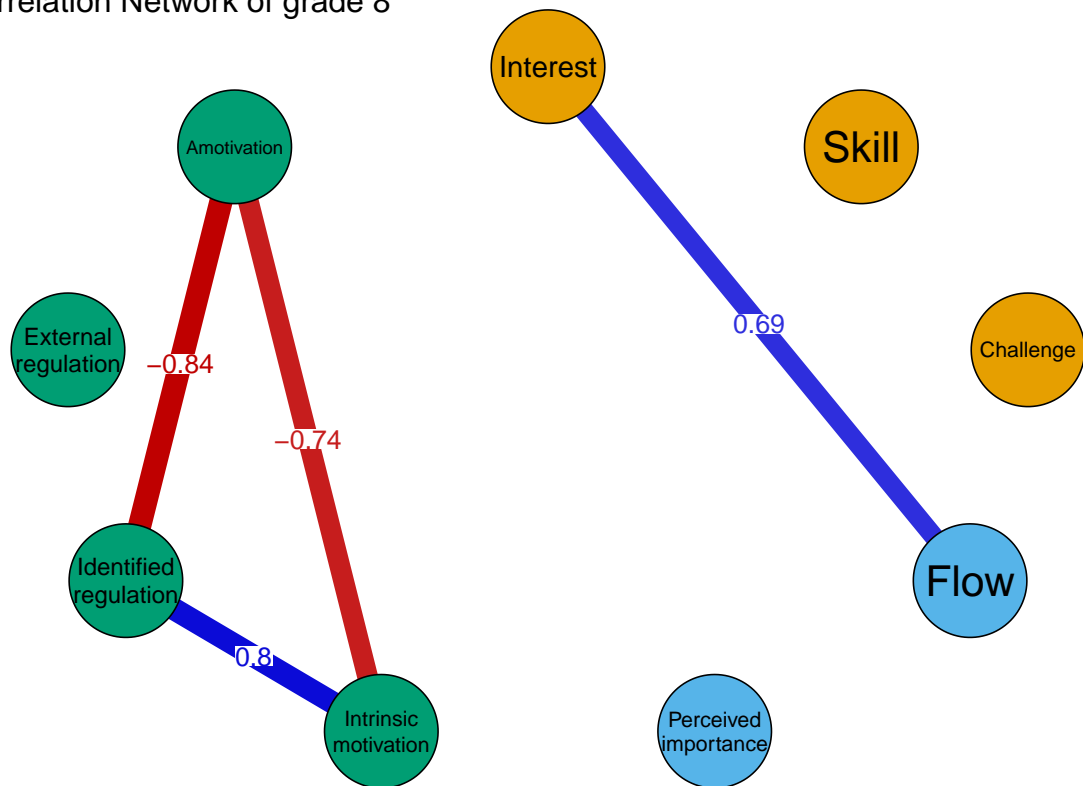
### Correlation Network of grade 5

Correlation Network of grade 6

Correlation Network of grade 7

Correlation Network of grade 8

Correlation Network of grade 9