

MISCONCEPTION

Many educators believe interventions targeting a growth mindset will improve academic achievement.

Many educators are concerned with fostering a growth mindset (i.e., “I can work hard to improve my success in math each day”) rather than a fixed mindset (i.e., “I’m just not good at math”) in students to promote math achievement.

TRUTH

Intervention research on stand-alone growth mindset interventions yield minimal gains on GPA in mathematics courses^a and replication attempts have failed.^b The most effective way to improve academic achievement is to deliver skill-building intervention.^c

What is Growth Mindset Theory (GMT)?

Individuals who believe intelligence is malleable will obtain higher attainment than students who view intelligence as fixed.

In GMT, teachers support students to:

- (1) believe they can improve their performance;
- (2) identify the effort and persistence required;
- (3) seek input or feedback to improve performance;
- (4) try new strategies or approaches if old ones fail.

ADVICE FOR USING GROWTH MINDSET IN INTERVENTIONS

Use praise statements based on students’ effort, understanding, and persistence on challenging math work.^d

Encourage students to master skills by providing choice of interventions, feedback, and goals on learning, and opportunities to monitor their own progress, reflect on learning goals, and record learning accomplishments.^e

Establish individual learning goals rather than promoting work exemplars from high achievers.^d

^aYeager et al. (2019)

^bLi & Bates (2020)

^cFuchs et al. (2021)

^dPark et al. (2016)

^eCodding et al. (2017)

