

GROUP NORMS & PROBLEM SOLVING

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MISTAKES

<https://mathgeekmama.com/8-reasons-making-mistakes-in-math-is-a-good-thing/>

Is it good to make mistakes in math?

MATH MINDSET

https://www.google.com/search?q=what+is+a+growth+mindset&source=lnms&tbm=vid&sa=X&ved=2ahUKEwjtmvPggIf9AhVwCrcAHTDsCX80_AUoAnoECAIQBA&cshid=1675896716916978&biw=1410&bih=701&dpr=2&safe=active&ssui=on#fpstate=ive&vld=cid:6fb33d96,vid:M1CHPnZfFmU

In your own words, what is a growth mindset?

MAHI TAHI (WORK TOGETHER)

<https://maoridictionary.co.nz/search?idiom=&phrase=&proverb=&loan=&histLoanWords=&keywords=problem+solving>

GROUP NORMS

G- giving thoughtful feedback

R- respect other

O- on task all the time

U- use inside voices

P- participate actively

S- stay with your group

COLLABORATIVE PROBLEM SOLVING STEPS

STEP 1

Grapple independently with the problem all by yourself

- read the problem, underline all key information
- Use **prior knowledge**-what does the question need you to solve?

STEP 2

Collaboration time

- share your thinking about the problem with your group
- discuss and compare ideas: what strategies are the same or different? Do they make you think differently about your own ideas? Do your ideas work together?
- **actively listen to your group** and create ideas to share with the whole class

STEP 3

Communication time (think of our group norms)

- share your groups best strategies and thinking behind them
- listen to the other ideas that are presented, how do they make you feel?

STEP 4

Critical Thinking Time

- **reflect:** how did you do? What would you do differently next time? What new maths skills do you need to solve this problem more successfully? Do you need to attempt more difficult problems?