

hello!



Create

Add task or students here

ENGINEER

Add task or students here

SOLVE

Add task or students here



$$\begin{aligned} \text{Watermelon} + \text{Watermelon} + \text{Watermelon} &= 36 \quad ??? \\ \text{Watermelon} + \text{Orange} + \text{Orange} &= 28 \\ \text{Orange} - \text{Banana} &= 3 \\ \text{Orange} = ? \quad \text{Watermelon} = ? \quad \text{Banana} = ? \end{aligned}$$



Today we will...

be creators and solution finders as we learning more about the Engineer Design Process



Class

meeting



Greeting

- Say hello to at least 3 people in class
- Make eye contact
- Remember to greet your teacher

Share

- Add in what you want **students** to share
- Reminders:
- listen to the speaker
 - take turns to talk
 - speak loud enough for everyone to hear

Message

- Add in class announcements or what **teacher** would like to share with class here

Mindfulness

- Optional Resource

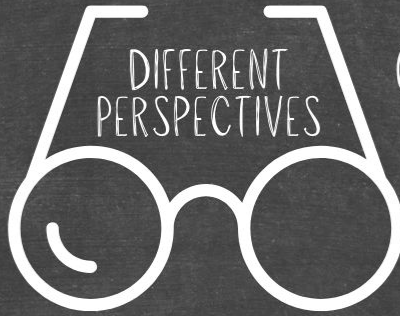
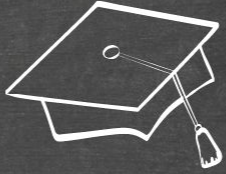
Let's SPARK your
Curiosity



What do you
notice?

What do you
wonder?

HABITS OF A SCHOLAR

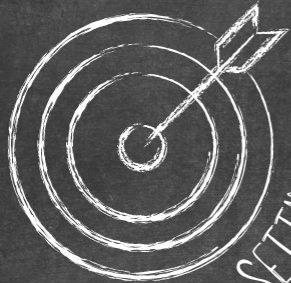


DIFFERENT PERSPECTIVES

CURIOSITY



PONDERING IDEAS



GOAL SETTING



SAVING IDEAS



PREPARATION



ACADEMIC HUMILITY



INTELLECTUAL RISK-TAKING



VARIED RESOURCES



EXCELLENCE



PERSEVERANCE

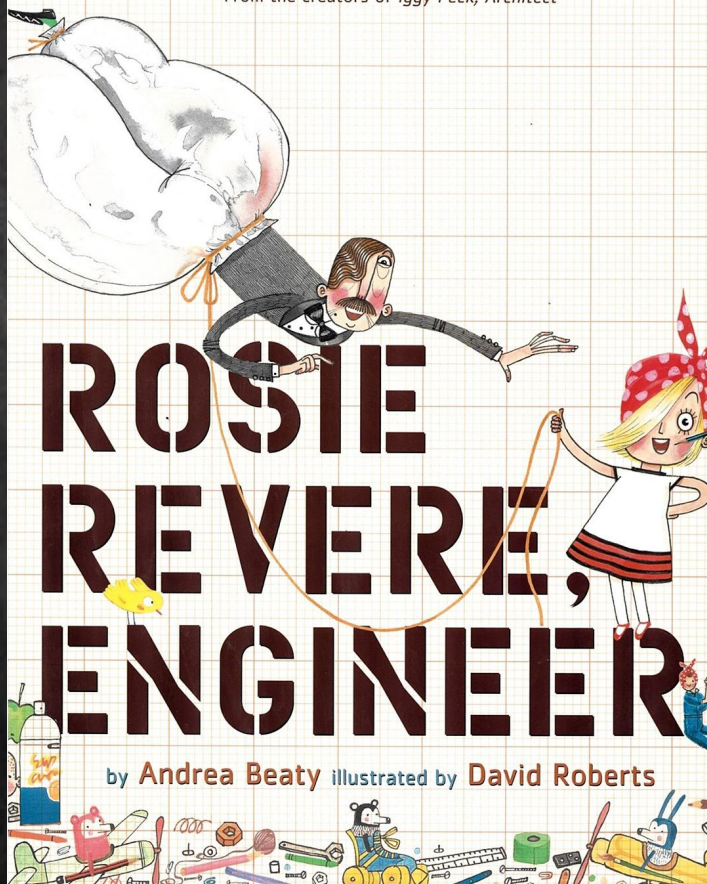


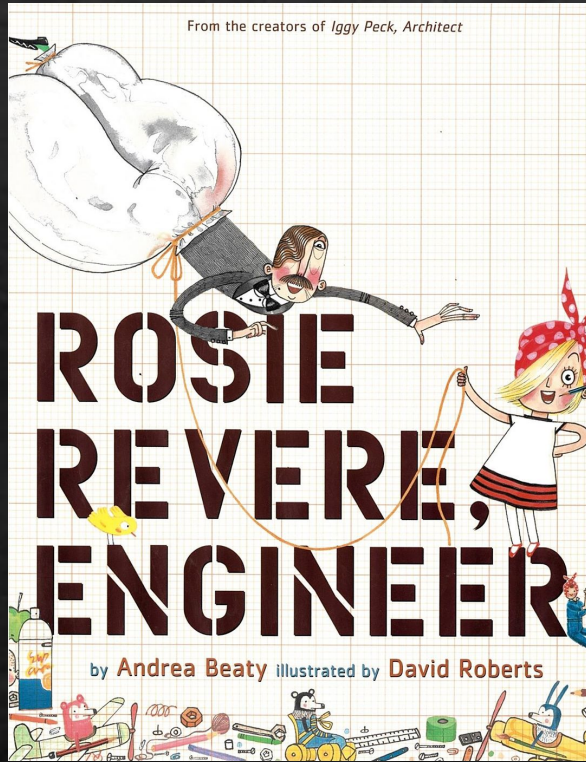
SCHOLARS CHALLENGE
THEIR MIND AND THINK
OUTSIDE THE BOX

Rosie Revere,
Engineer



From the creators of *Iggy Peck, Architect*





What examples from the story demonstrate that Rosie is a scholar?

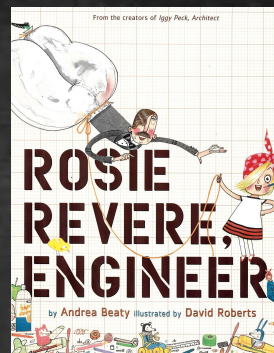


Breakout



"With each perfect failure, they all stand and cheer..."

☺ Let's Reflect ☺

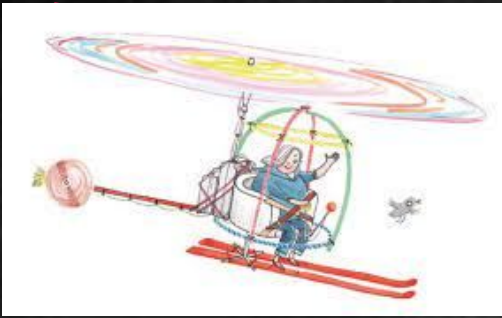


Why does Miss Greer's class cheer about failures?

Have you ever celebrated a failure? Why or why not?

Rosie-Copter





Rosie-Copter Challenge

Change the blades on Rosie's copter
to make it fall to the ground
as slowly as possible.



ENGINEER

PROCESS





Prepare

- Brainstorm some changes to the copter blades that you think might make it fall slower. How long or short? What shape? Folds? Holes? What else?
- Sketch your ideas.
- What supplies will you need?
- Make a list of the steps you will take.
- Who will do which step?





≡ Create ≡

Construct a copter according to your plan.

Collaborate with your group.

Work steadily and manage your time.

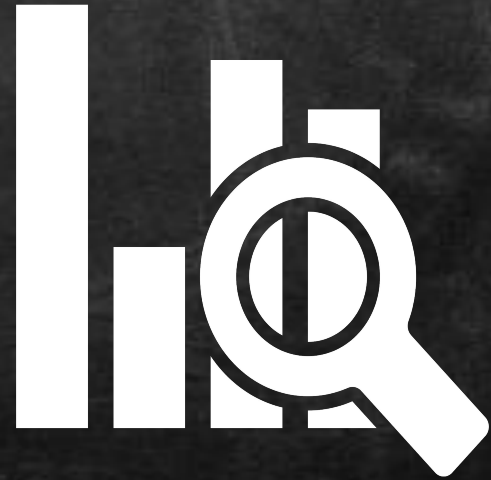




Test

Test your copter design by comparing it to the Rosie-Copter. Hold each copter at the clip, one in each hand. Drop them at the same time. Repeat a few times to be sure of your results.

Does your copter fall slower than the Rosie-Copter?





≡ Improve ≡

Whether your design passed or failed the performance test, it can probably be improved. Give it a try!





EXTEND





EXTEND

