




HOW TO DO GREAT RESEARCH

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OUTLINE OF TODAY'S PRESENTATION

- Best tips (that you already learned)
- Hear it from former students
- Q & A

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All I really need to know I learned
in kindergarten

MOST OF WHAT I REALLY NEED
TO KNOW ABOUT HOW TO LIVE
AND WHAT TO DO AND HOW TO BE
I LEARNED IN KINDERGARTEN.

WISDOM WAS NOT AT THE TOP
OF THE GRADUATE SCHOOL MOUNTAIN,
BUT THERE IN THE SAND PILE AT SCHOOL.

THESE ARE THE THINGS I LEARNED:

Share everything.

Play fair.

Don't hit people.

Put things back where you found them.

Clean up your own mess.

Don't take things that aren't yours.

Say you're sorry when you hurt somebody.

Wash your hands before you eat.

Flush.

Warm cookies and cold milk are good for you.

Live a balanced life

Learn some and think some

And draw and paint and sing and dance

And **play and work everyday some.**

Take a nap every afternoon.

When you **go out into the world,**

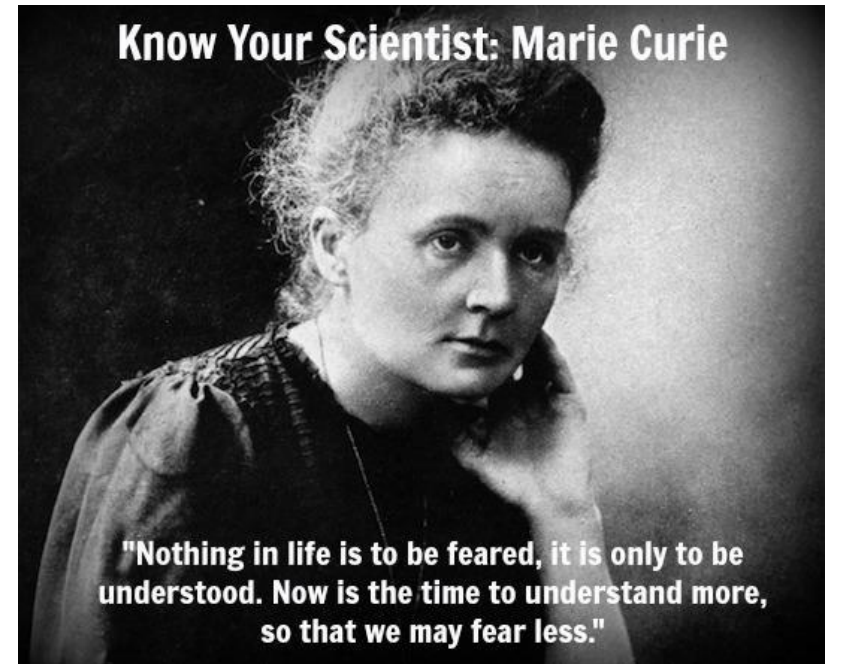
Watch out for traffic,

Hold hands and **stick together.**

Be aware of wonder.

BE AWARE OF WONDER

- Find some inspiration regarding open problems and big ideas
- Don't be afraid to ask the big questions
- Challenge your mentors
- Be driven by the excitement of science or humanities

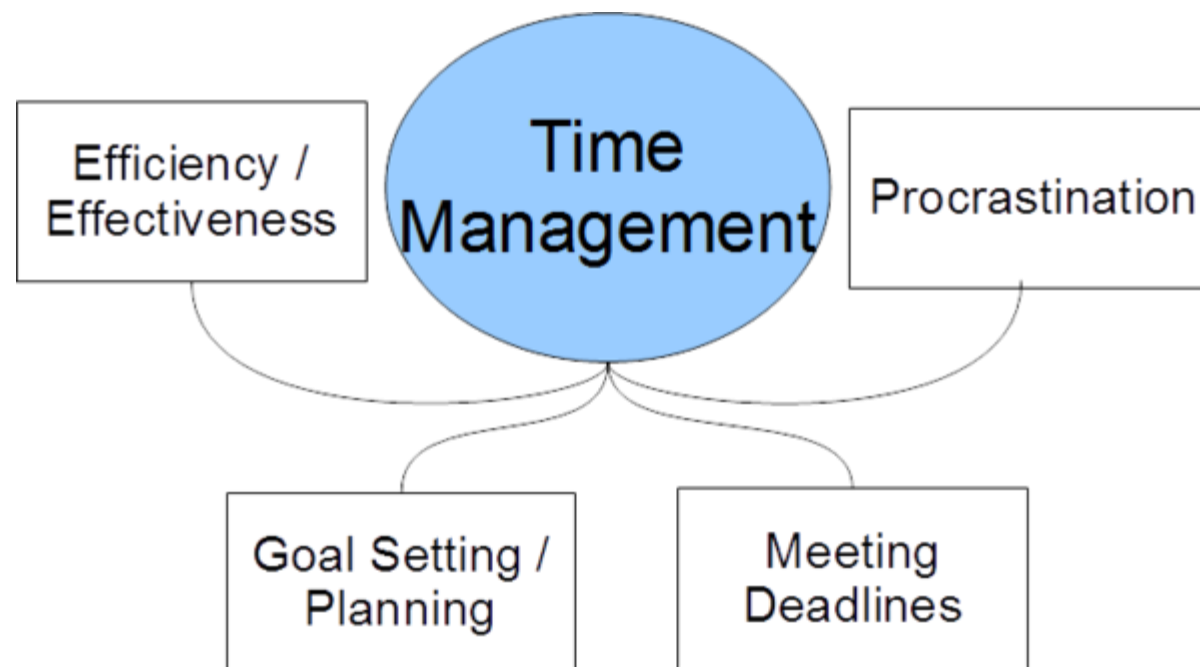


STICK TOGETHER

- Collaborate
- Find others with similar interests
 - Create a reading group
 - Go to regional, national, and international conferences
 - You will find it's a small world after all
- Ask for help and ask lots of questions

TAKE A NAP EVERY AFTERNOON (OR AT LEAST SCHEDULE ONE)

- Time management is key
- Plan and prioritize
- Create schedule with specific milestones
- Take breaks



DON'T TAKE THINGS THAT AREN'T YOURS

- Give credit where credit is due
(Don't plagiarize)
- Don't make up data and findings
just because they are more interesting
- Collaborate with others students
Don't take their ideas

LEARN SOME AND THINK SOME

- Read
- Write
- Think
- Talk

SHARE EVERYTHING

- Share your findings
- Present and publish
- Share your data (Open science)
- Disseminate widely –
 - Scholars
 - Public sector
 - Private sector
 - Government

PUT THINGS BACK WHERE YOU FOUND THEM

- Be a good lab member
- Keep the place neat and clean
- Follow directions
- Leave the lab/agency better than when you started

PLAY AND WORK EVERYDAY SOME

- Don't be afraid to take risks
- Find data, materials, apparatus and play around

LIVE A BALANCED LIFE

- Avoid burnout
- Find something fun to do in your spare time

GO OUT INTO THE WORLD

- Be professional
- Represent yourself well
- Find your passion and stick with it



QUESTIONS?

