

GROUP      your experience and skills with others      **SHARING**  
GROUP      problem solving      (with or without)

UTILIZING the skills and experiences of others  
working together as a **TEAM**

One focus, ~~to~~ complete a task

- hearing ideas and agreeing to make  
a decision to pick the best idea

- working together for a purpose/goal

- Listening

- Unstubbornness

collaboration

- working together
- tolerance of others' opinions
- willingness to compromise
- being a team player

Collective  
Objective

L

L

A

Building on ideas

Organization

Risk

A

Team

Individual Strengths

O

A

I think collaboration is multiple people coming together and utilizing each's strengths for the greater

good. A good metaphor/example is

the human body: an eye is good for

seeing but cannot process what it

sees w/out the brain, the digestive

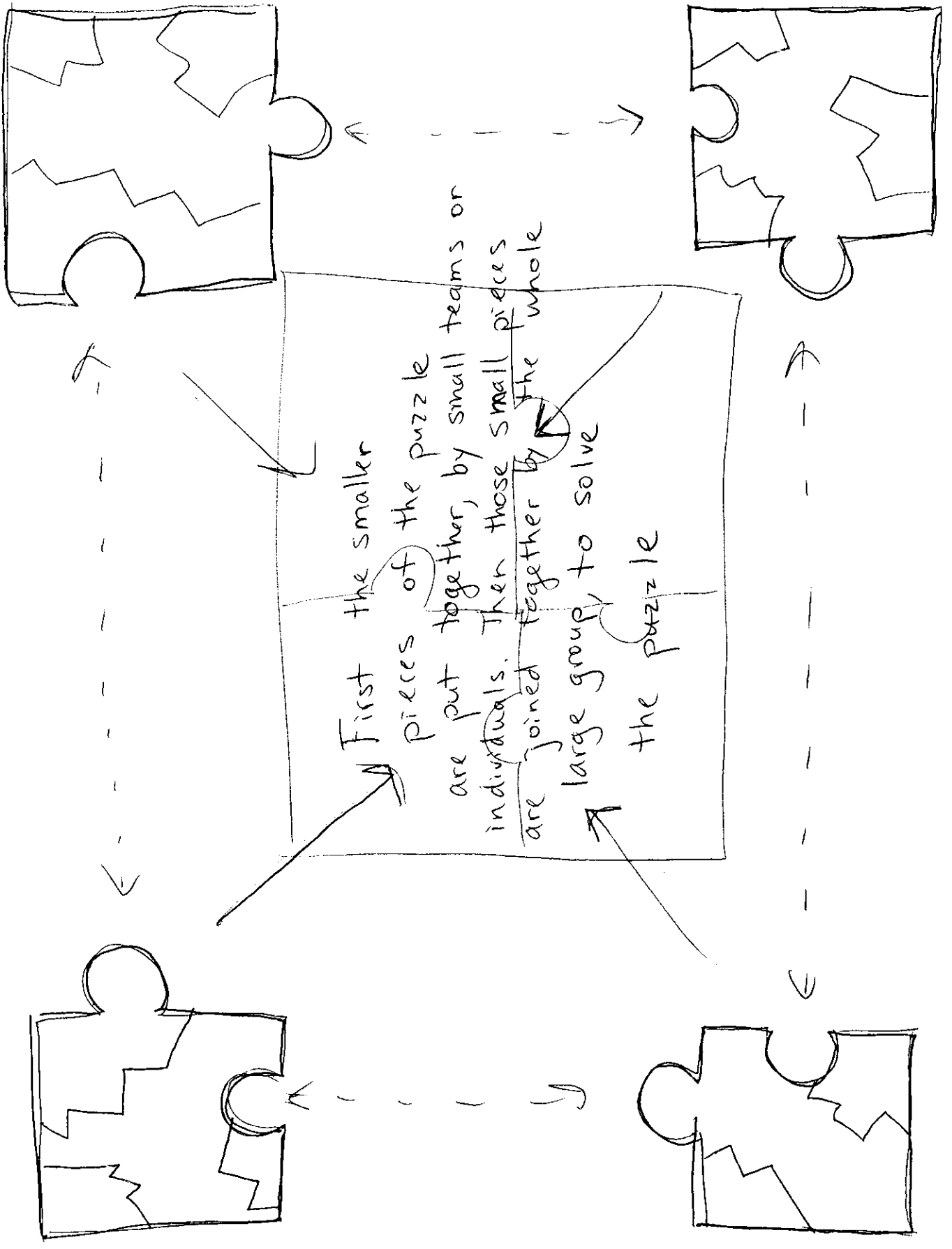
tract nourishes us but cannot do so

w/out the hand to get the food there

and the mouth to chew it. We each

have our strengths-- Put us together and we <sup>even better</sup>

- kids of all ages + gender working in teams (no physical boundaries)
- teachers working/sharing ideas globally
- people sharing ideas, asking questions etc. using virtual social networks
- sharing resources "virtually"
- making appropriate, timely use of digital technologies
- equipping students <sup>(with skills, attitudes, etc)</sup> to work in a "digitally enriched" world.



# Collaboration

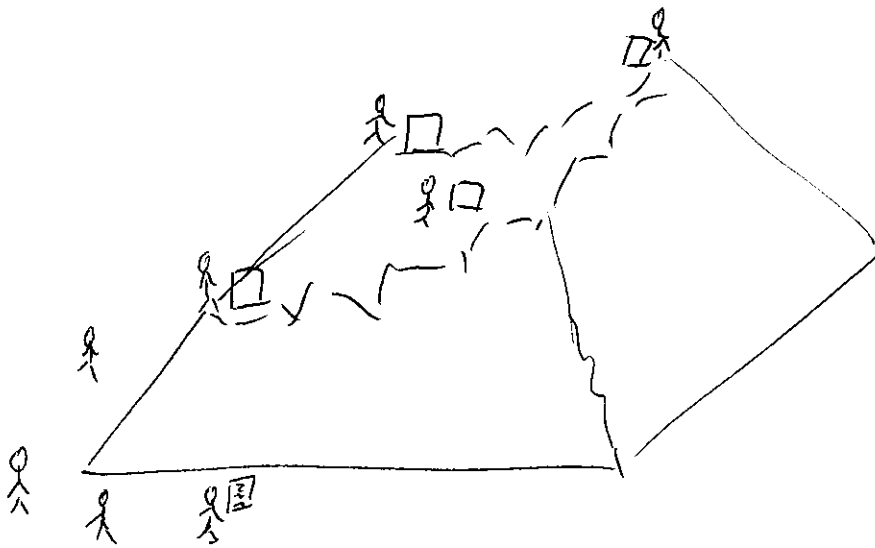
- working together to achieve some goal
- working in a way that everyone can be heard and participate
- involves <sup>provides opportunities</sup> highlighting strengths of <sup>the</sup> individual to benefit a larger effort
- the <sup>sum</sup> of the parts is greater than <sup>the work of just</sup> ~~the~~ one individual
- includes ~~an~~ exchange of ideas
- ~~it~~ encourages and brings out best in an individual

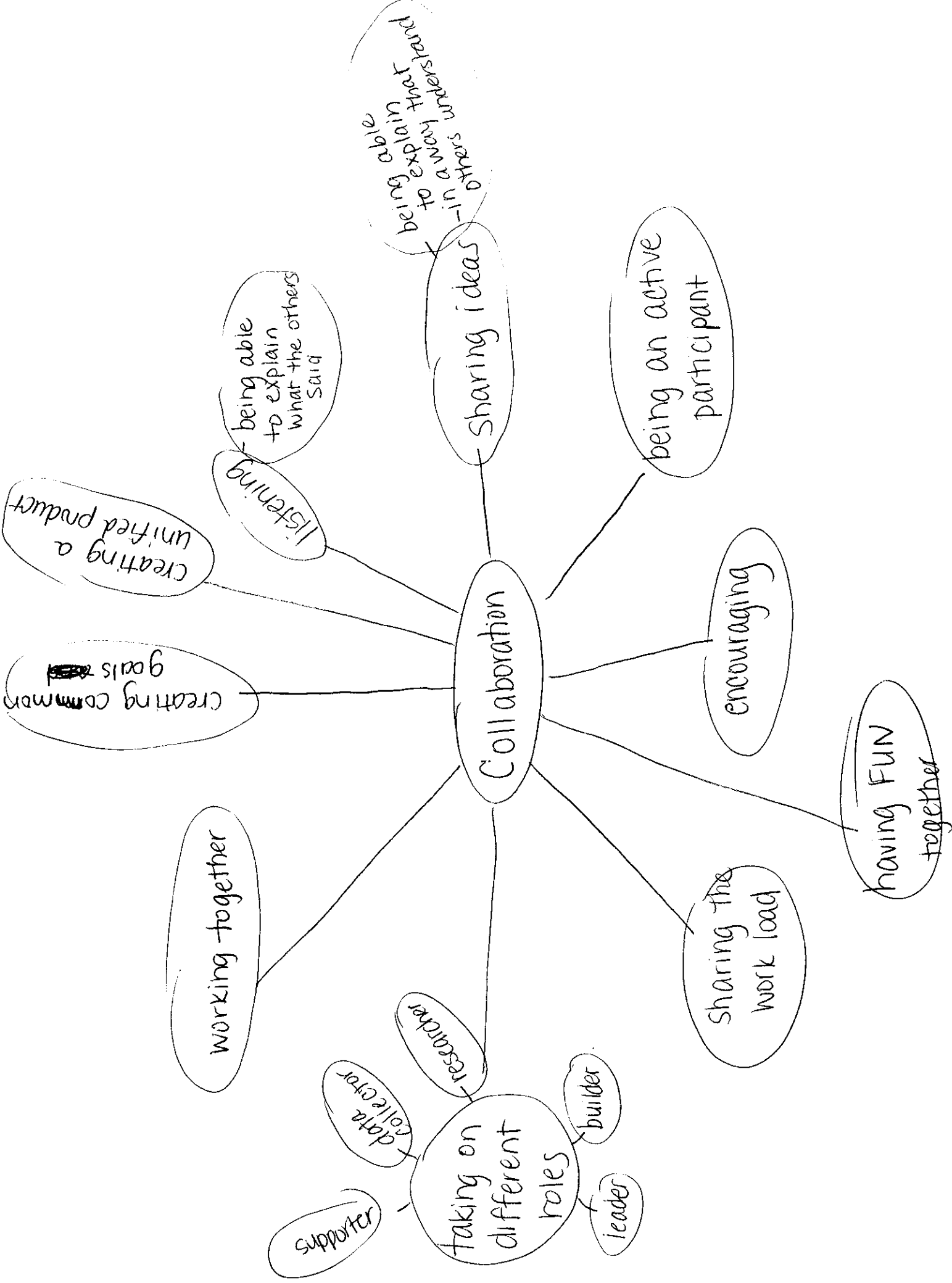




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Voices that are heard to their full extent

Greater good of mankind

Whole more valuable than parts

individual parts working as whole

teamwork

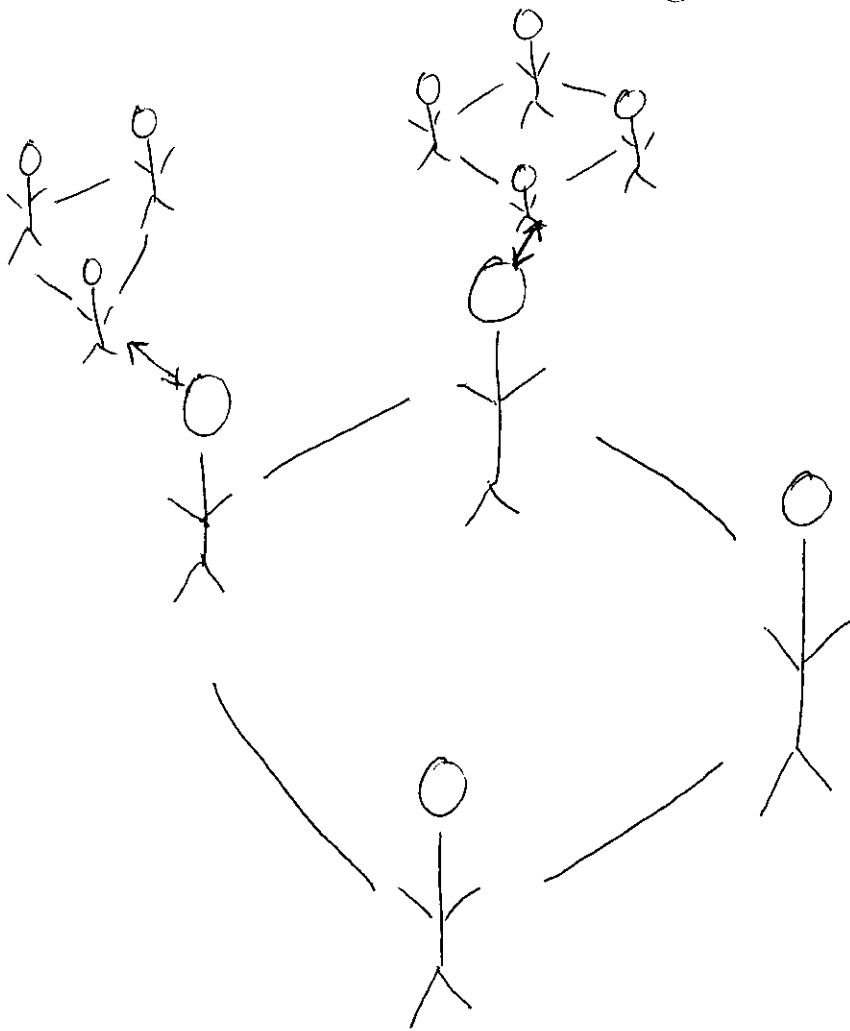
Sharing - Pool resources

Collaboration

individual work

# Collaboration is . . . .

- Working together to achieve a common goal



- bringing multiple collaborations or networks together

- everyone bringing different ideas, strengths, background and skills to make a more effective working partnership.

help

Share - all ideas accepted → build on ideas of others  
→ fosters greater creativity

Supportive environment

no limits to partners

unlimited scope

allows for all levels to be involved

fosters co-operation

work together on common goal/purpose

open-ended problem-solving

bridges cultural, social, economic, gender gaps

# Collaboration

- \* Share ideas
- \* Respect others
- \* help others
- \* good communication
- \* extend the ideas of others
- \*  $\begin{matrix} \text{Caring} \\ \text{C} \end{matrix}$
- \* creative & innovative
- \* Share the same goal  
 $\begin{matrix} \text{C} \\ \text{C} \end{matrix}$



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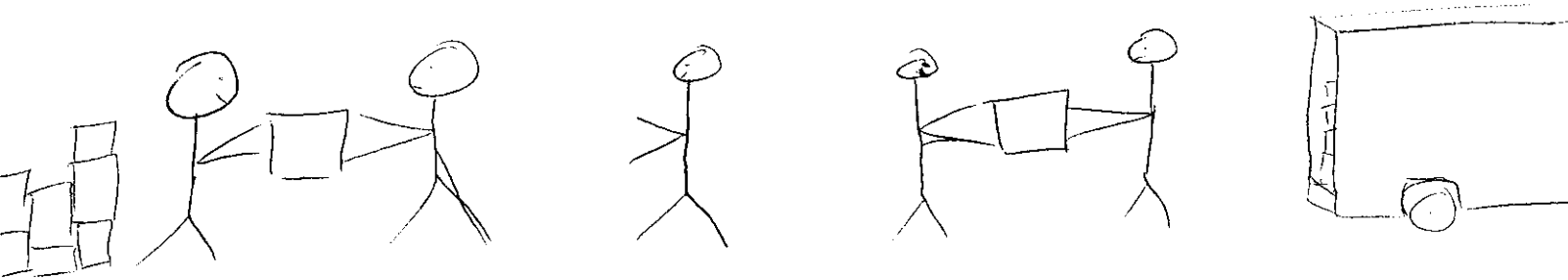
- ~ Building on ideas
- ~ Exploring other points of view
- ~ Share common goals



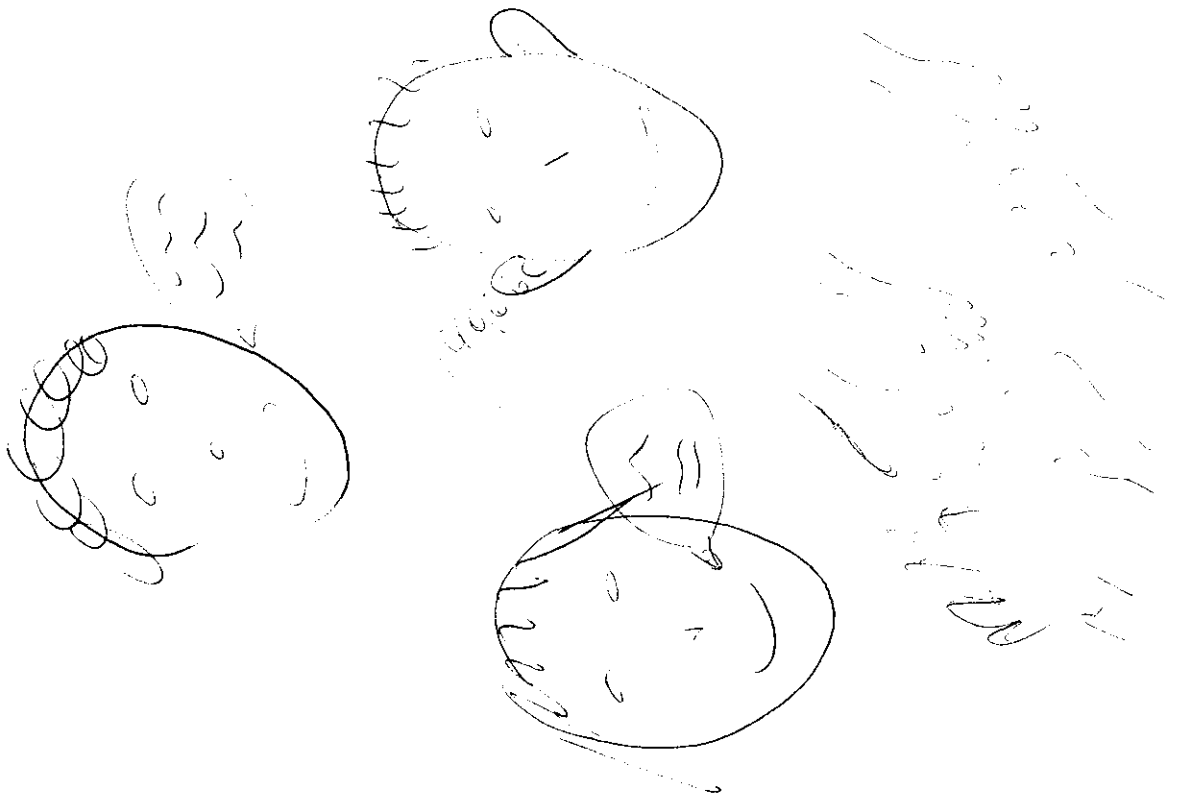
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## Assembly Line



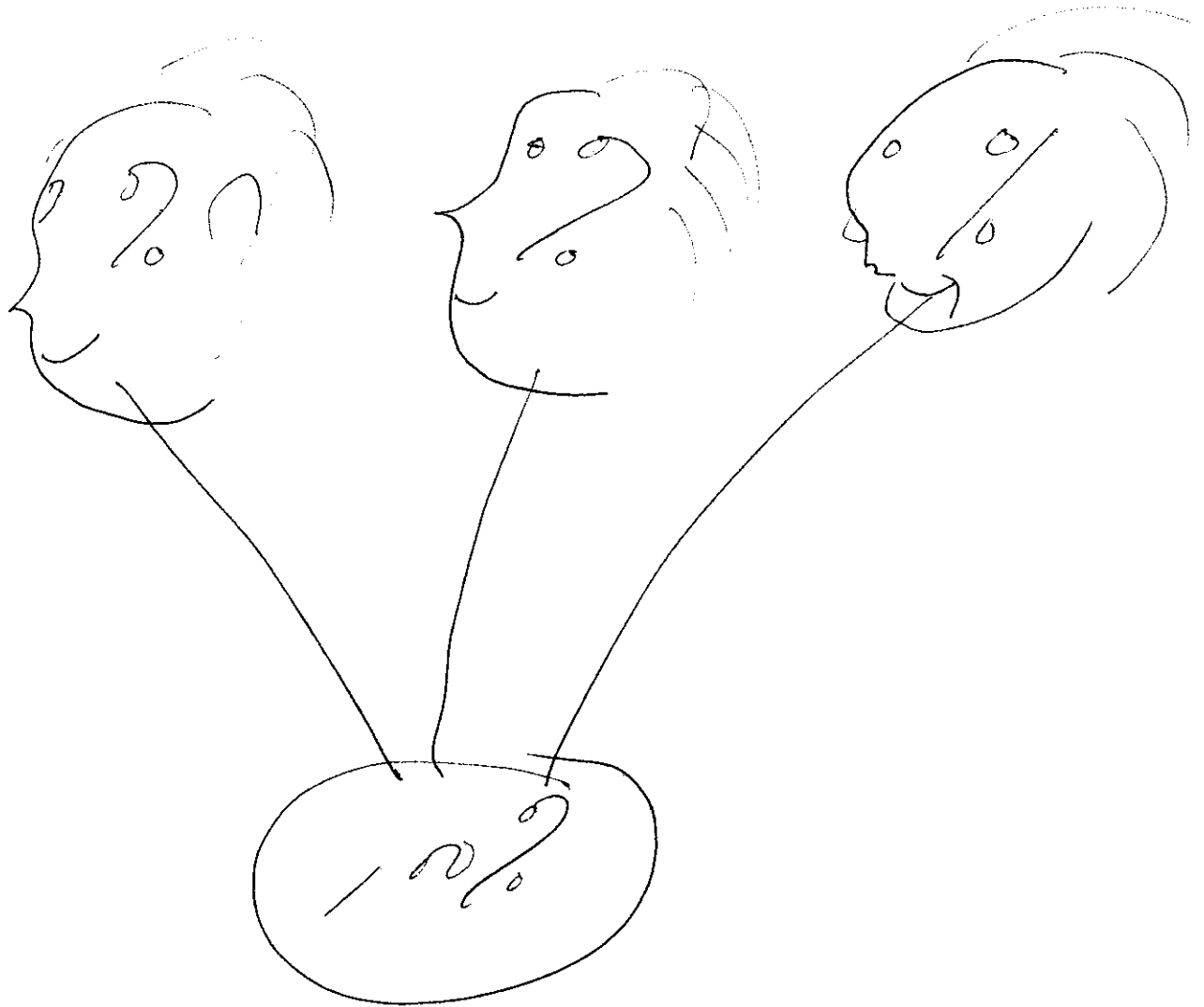






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everyone included  
in a larger goal



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1 goal / task

Brainstorming

diverse ideas of how to achieve goal  
both in 1 person's brain and amongst  
groups' brains

Trying out own ideas / solutions  
+  
checking out others' ideas / solutions



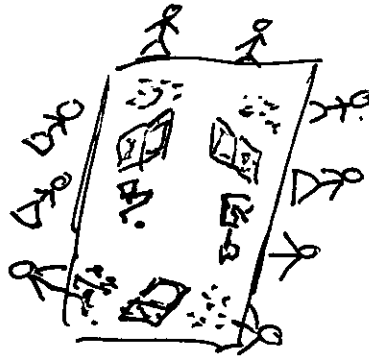
Goal of solving problem realistically



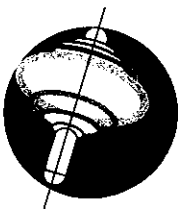
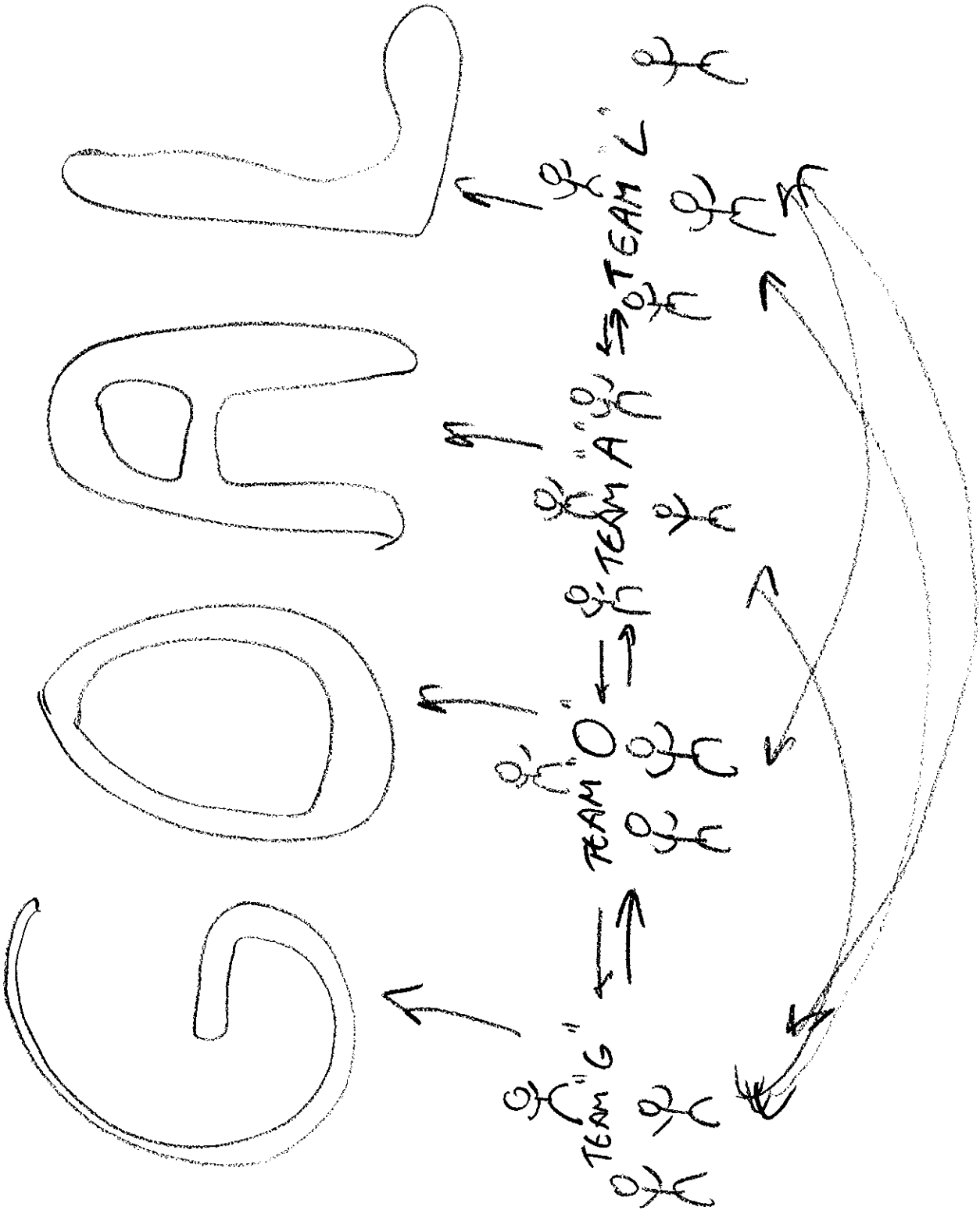
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CHILDREN HELPING EACH OTHER  
IN THE CLASS ROOM, WORKING TOGETHER  
COMPETING, SOLVING PROBLEMS, BEING CREATIVE



TEAM - WORK.



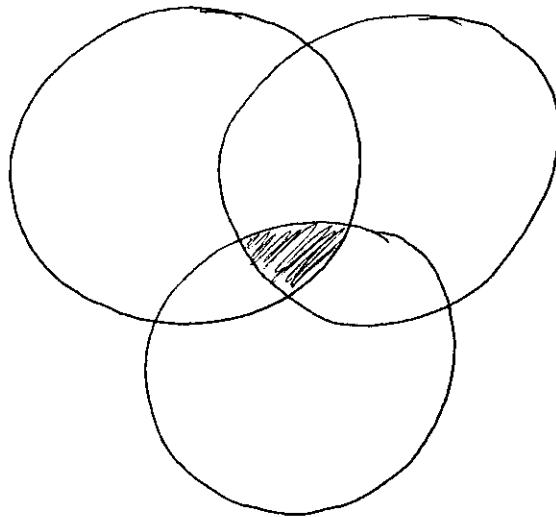


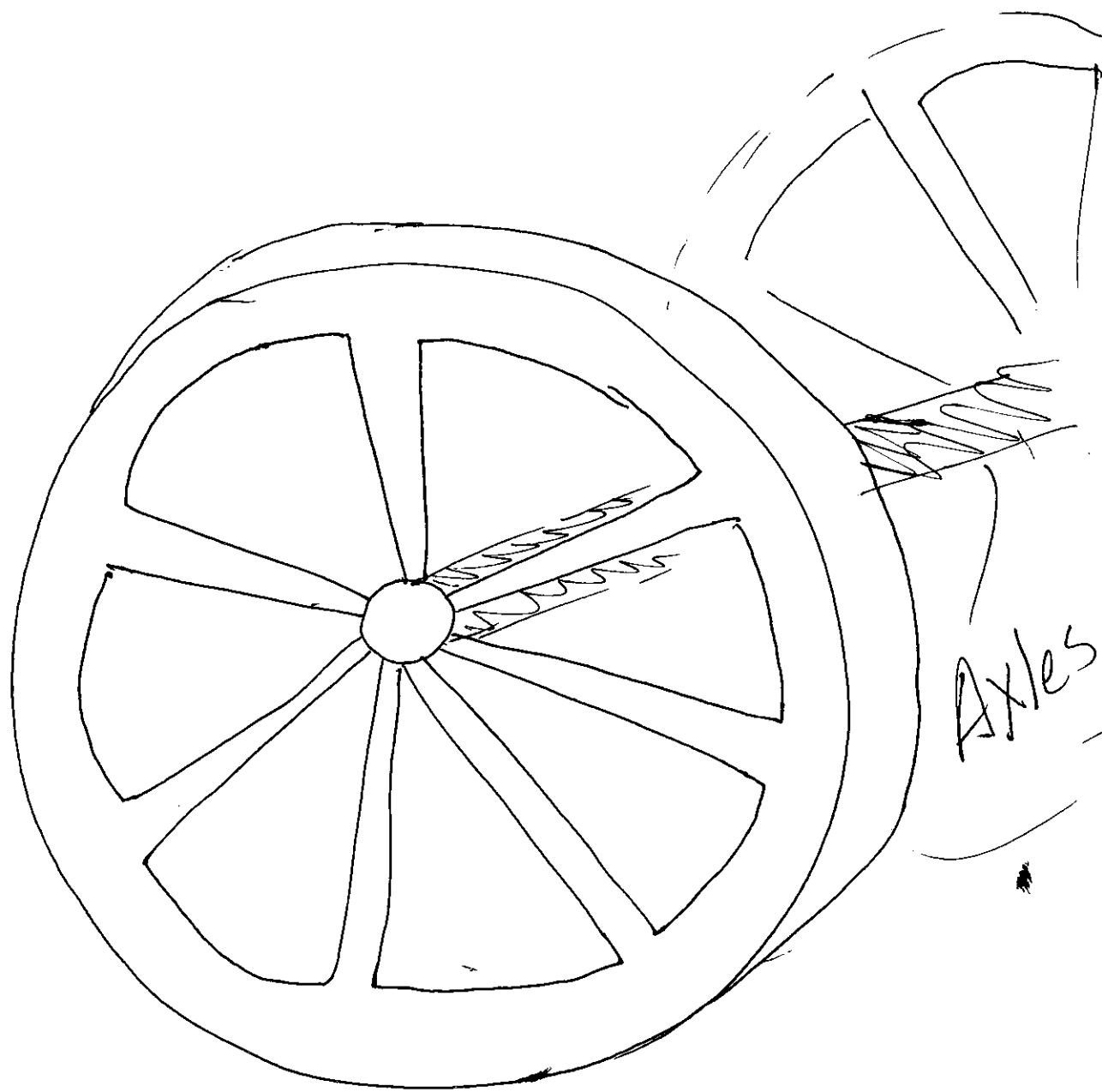
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## Collaboration

Bringing different ideas together and using them to build off each other.





Spokes on a  
Wheel

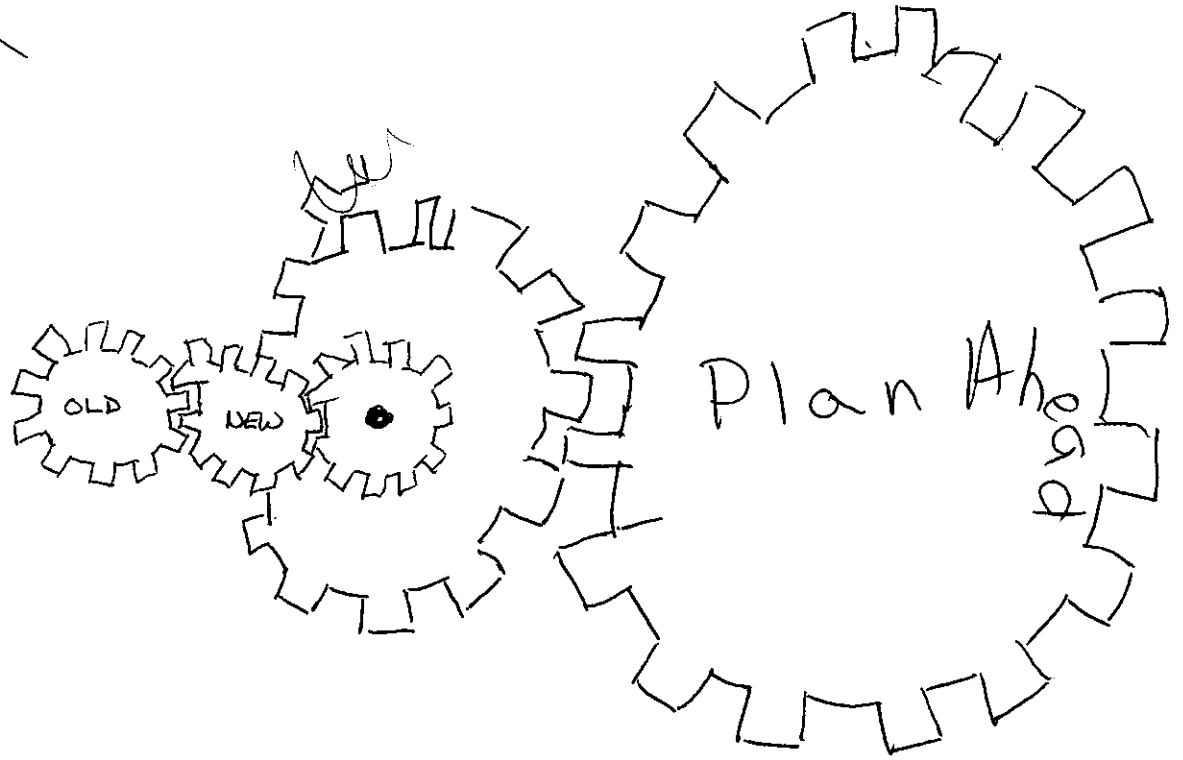




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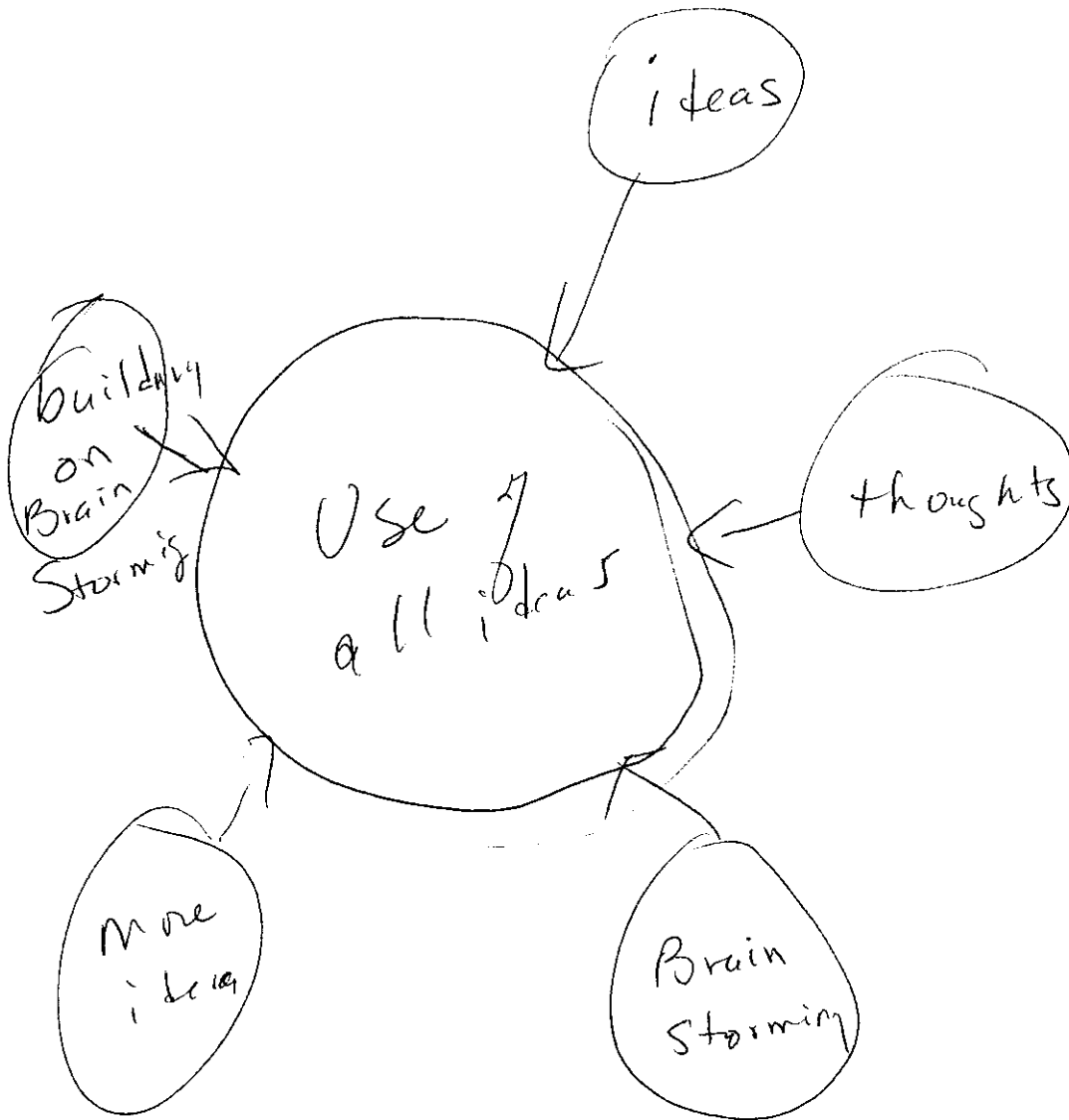
BRAINSTORM





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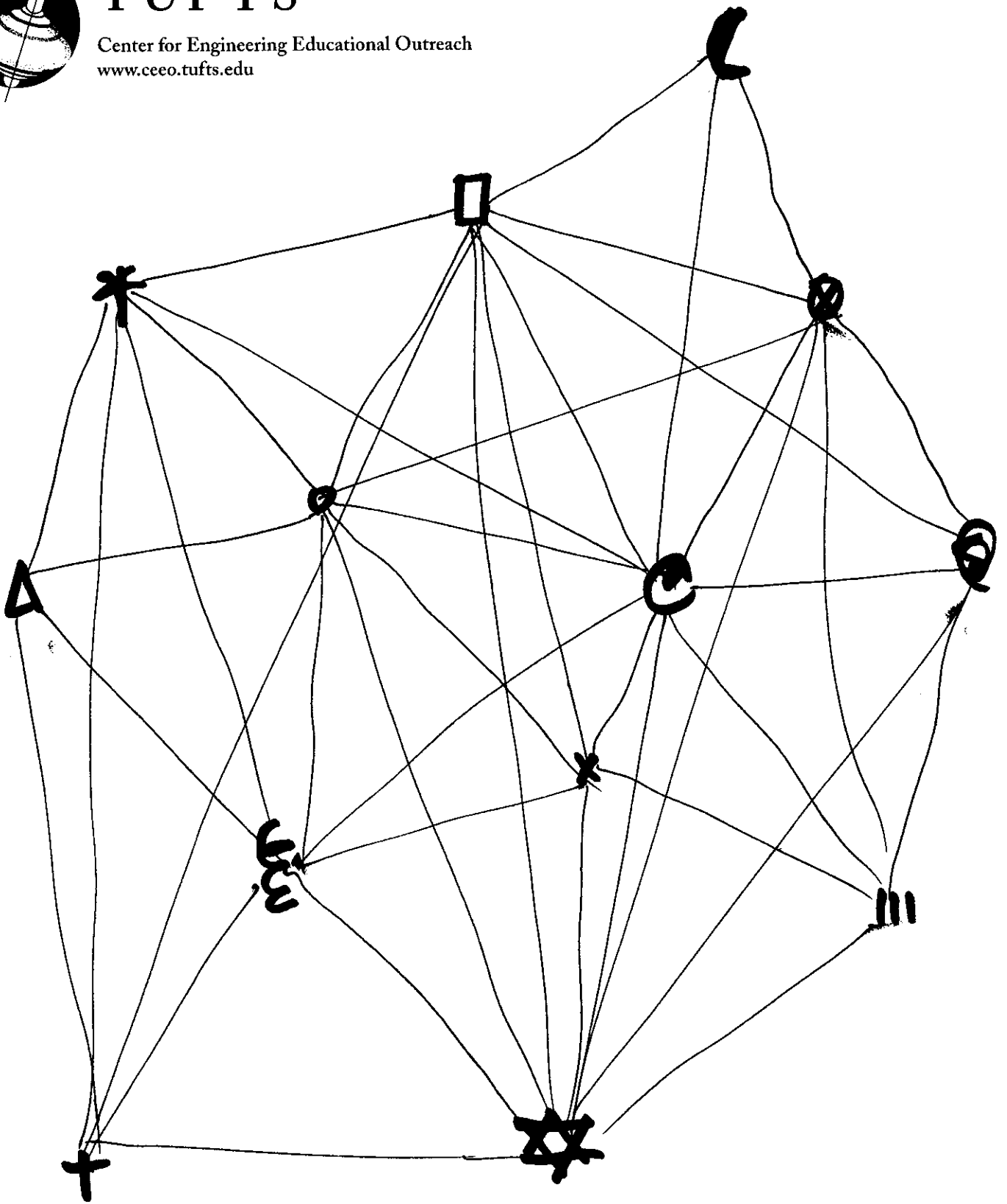
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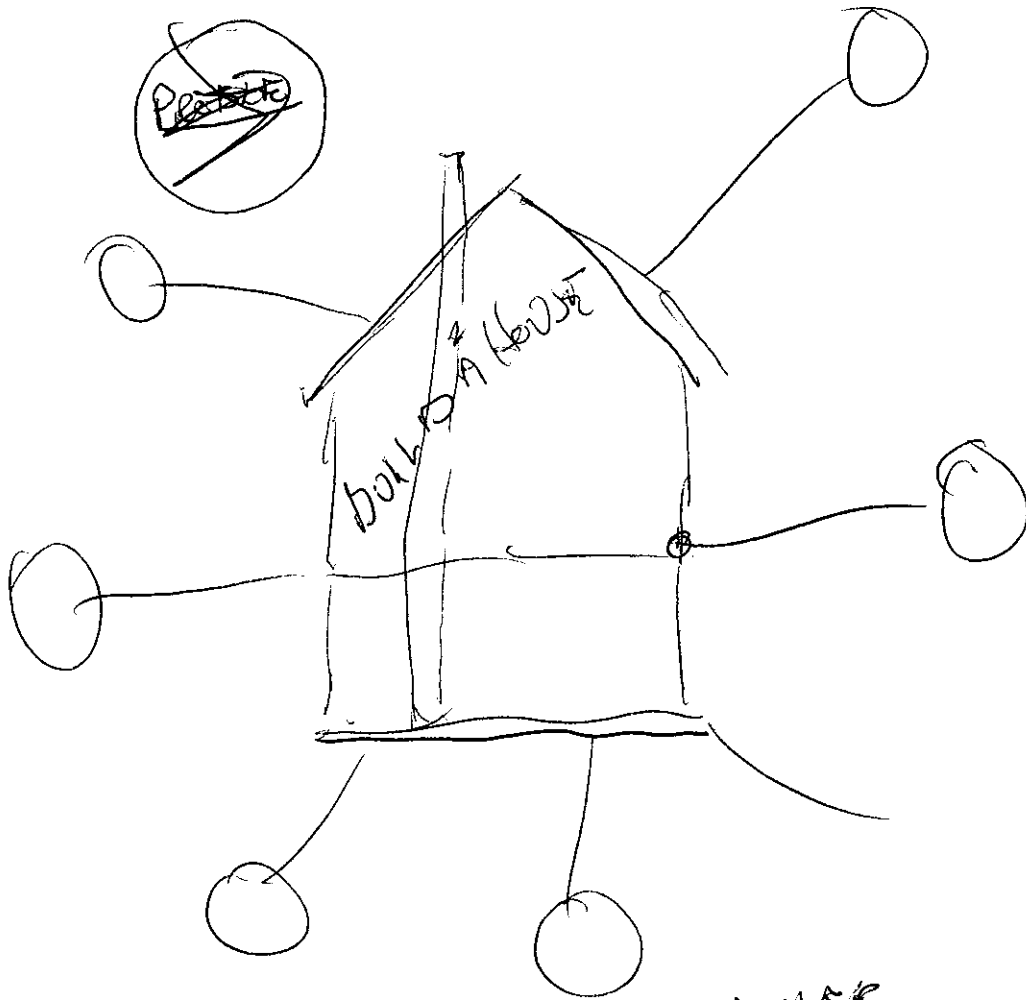
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Collaboration

○ - ALL THE WORKERS FOR  
BUILD A HOUSE

~~HOW~~ BUILDING WORKERS



COMMUNICATE, WORK TOGETHER.

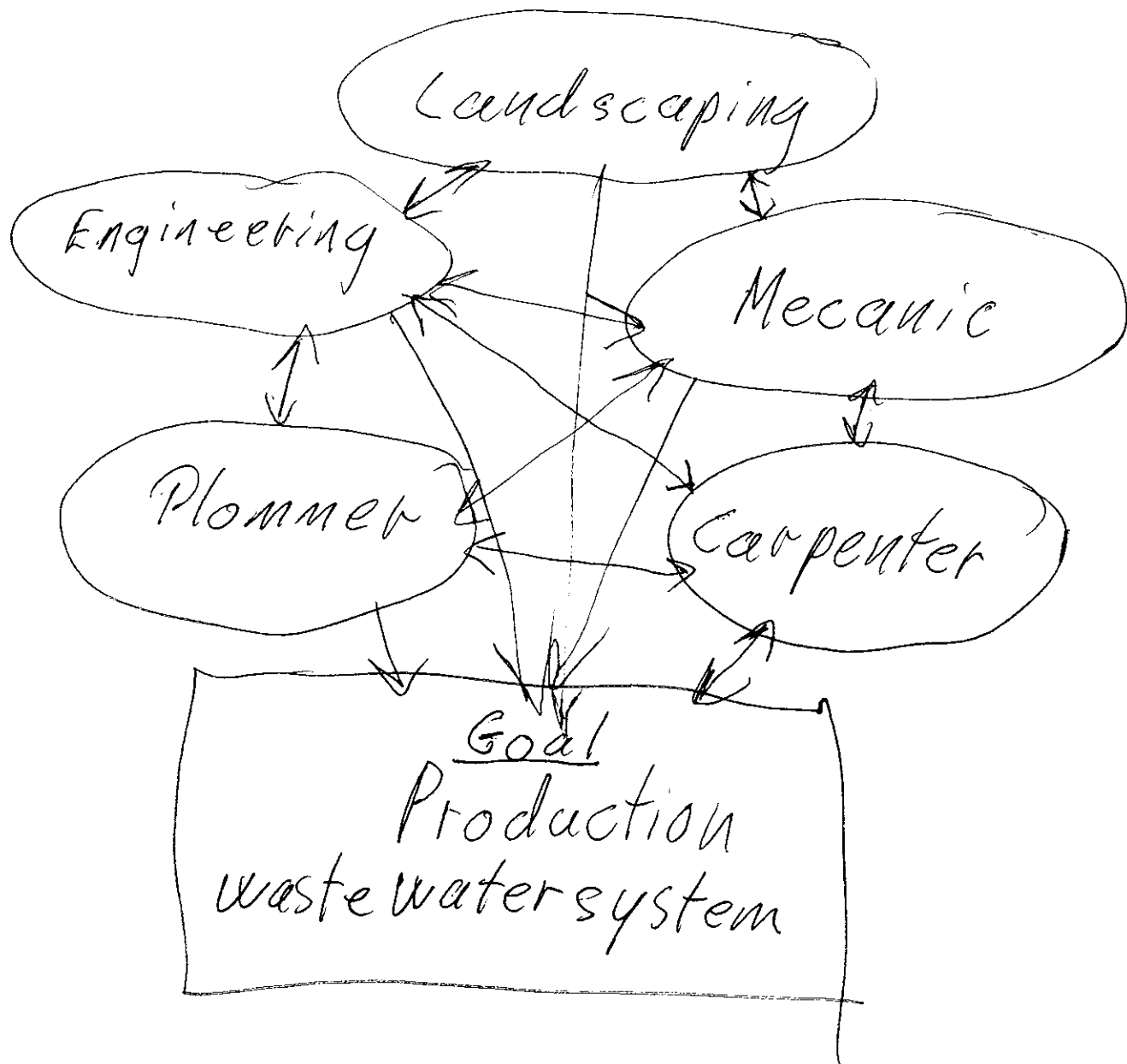
TEACHERS JOB FOR GETTING THEM WORK  
TOGETHER

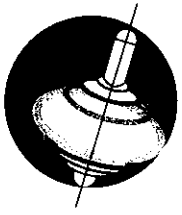


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## Production - network





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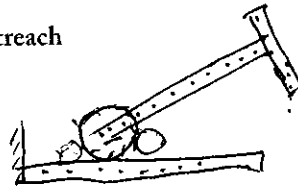
Solving a problem that's too big  
for 1 person (or few people)

- needs varied expertise
- people work towards similar goals
- how to manage big teams?  
use everybody to the fullest
- How can everybody feel appreciated  
contribute but not as a 'wheel'
- ? how to do this with kids ->  
usually more selfish



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Problem

Investigate

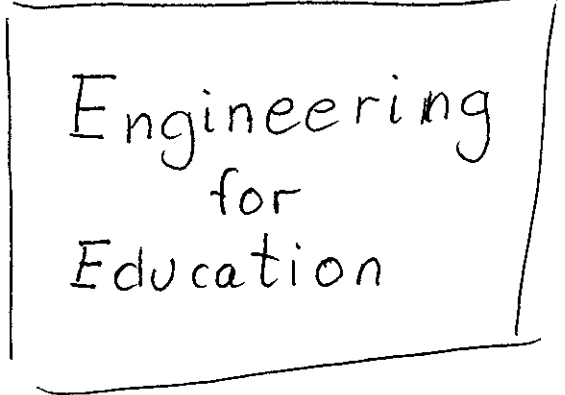


Solutions



one solution

Evaluate



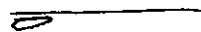
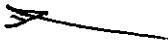
Present



test



prototype



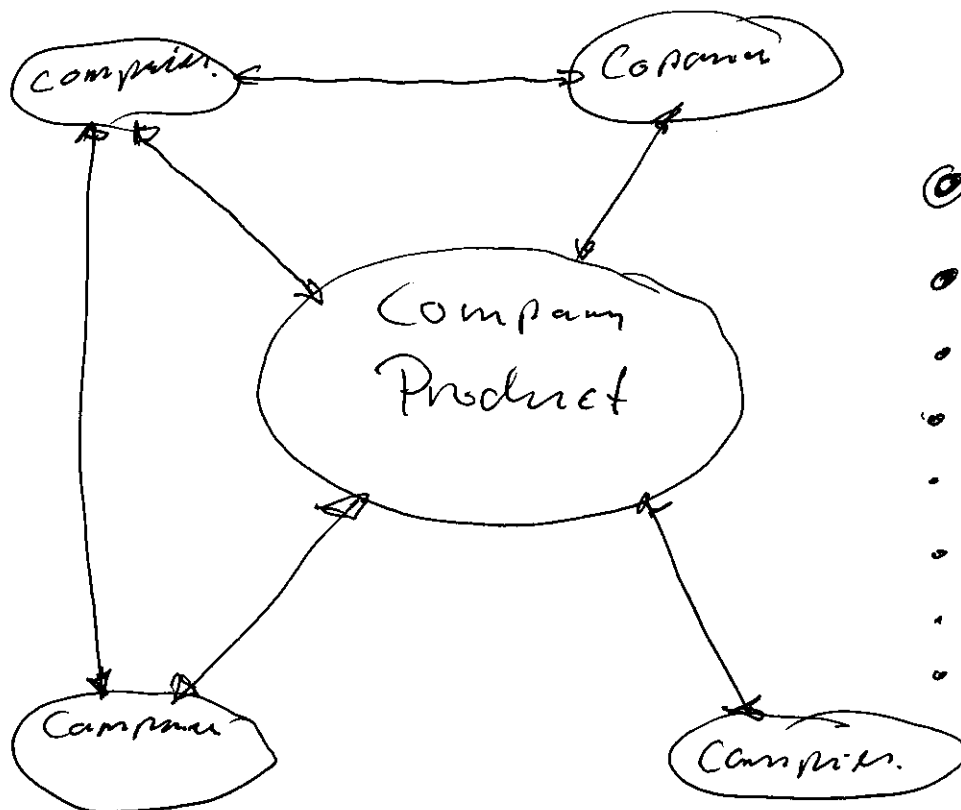


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## Collaboration

Production network.



- Communication
- Quality
- Economy
- Marketing
- Equipment
- Materials
- Coordination
- Learning
- Stability?
- Challenges

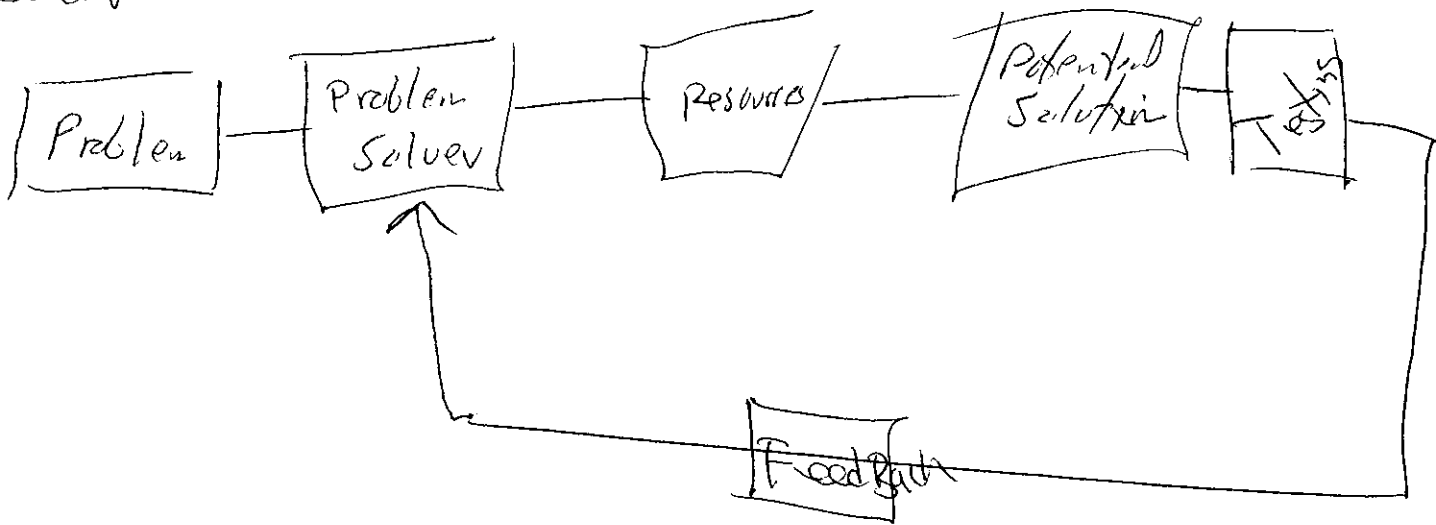


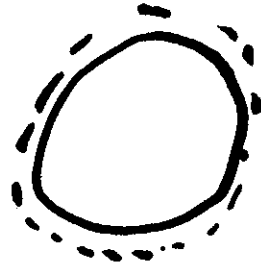
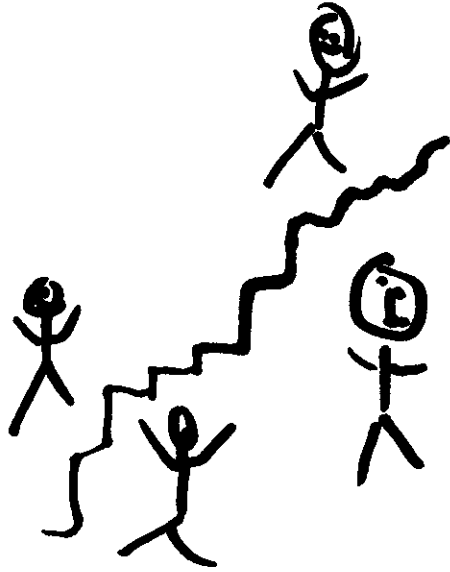


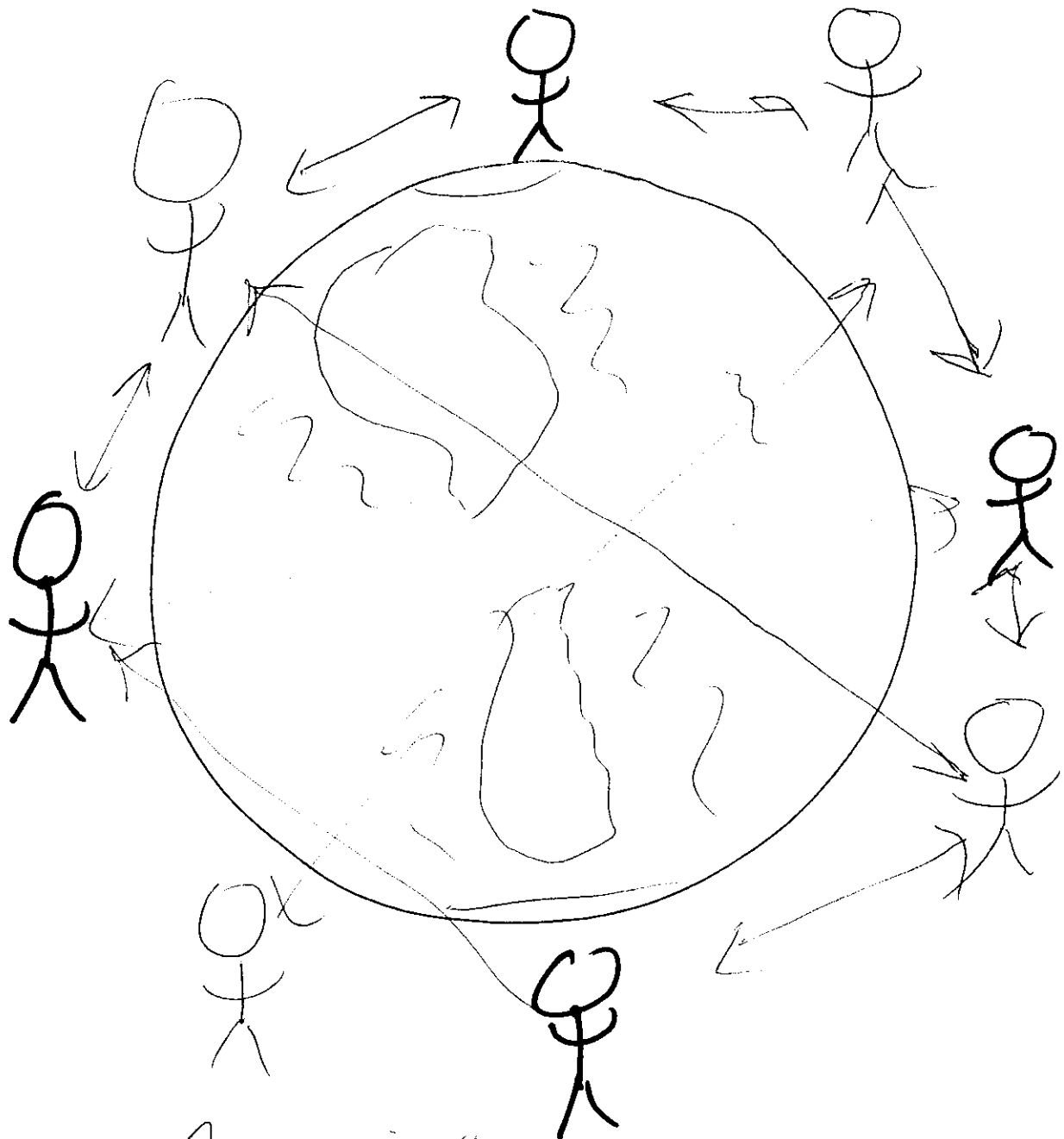
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Collaboration is Linking Problems  
Solvers with resources ~~are~~ related  
To Potential Solutions, Testing Procedures for  
Developed Solutions, And ~~Fixing~~ Fixing Bugs





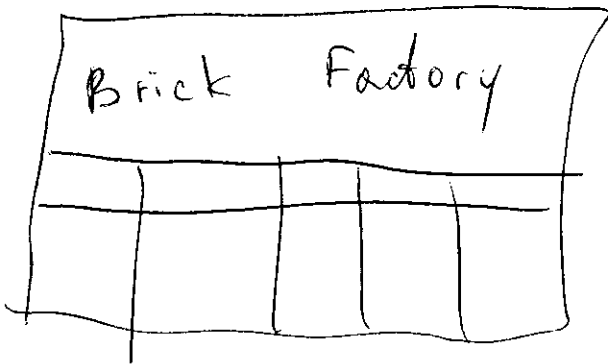
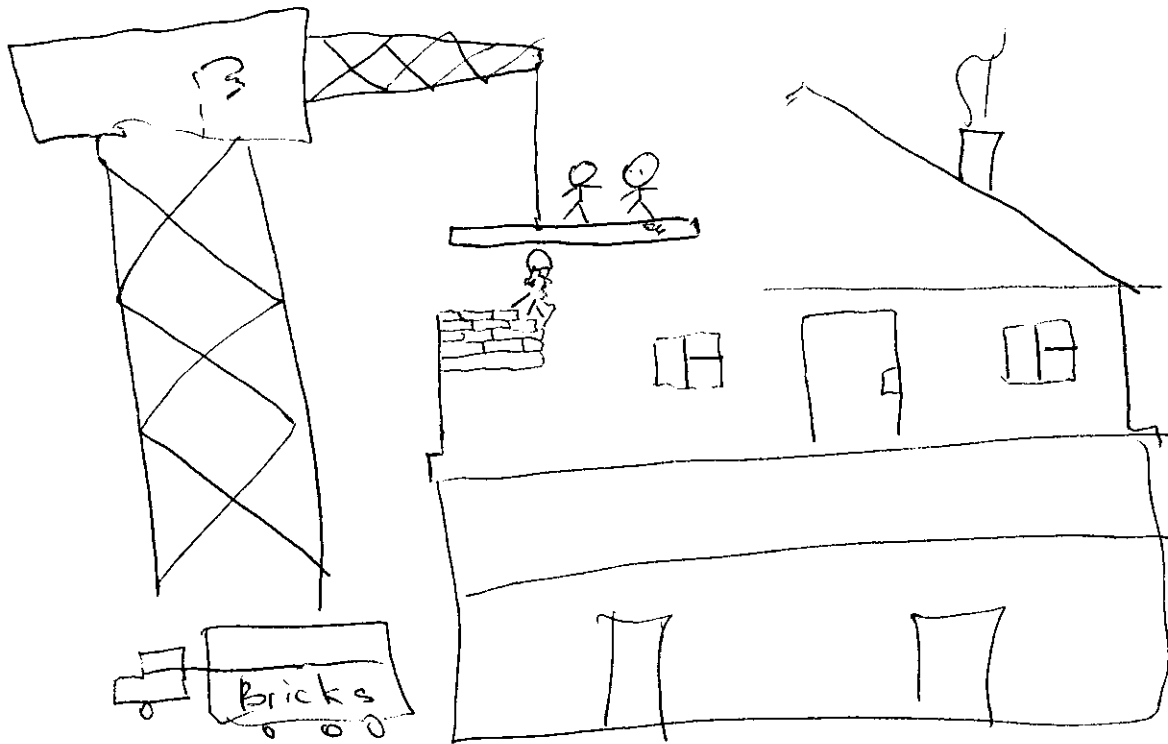


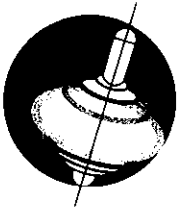
Perhaps  
Communicating  
Through a blog, Wiki - Skype etc!



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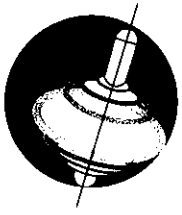
Solution composed of multiple stages  
or parts — such as ① Rube Goldberg

sequence, ② City Infrastructure (Light, Water,  
Sewage, Transportation)

③ House Design (Electrical, Water, Climate Control  
Shelter)

④ Zoo — Collection of Exhibits

⑤ Museum — Collection of Exhibits



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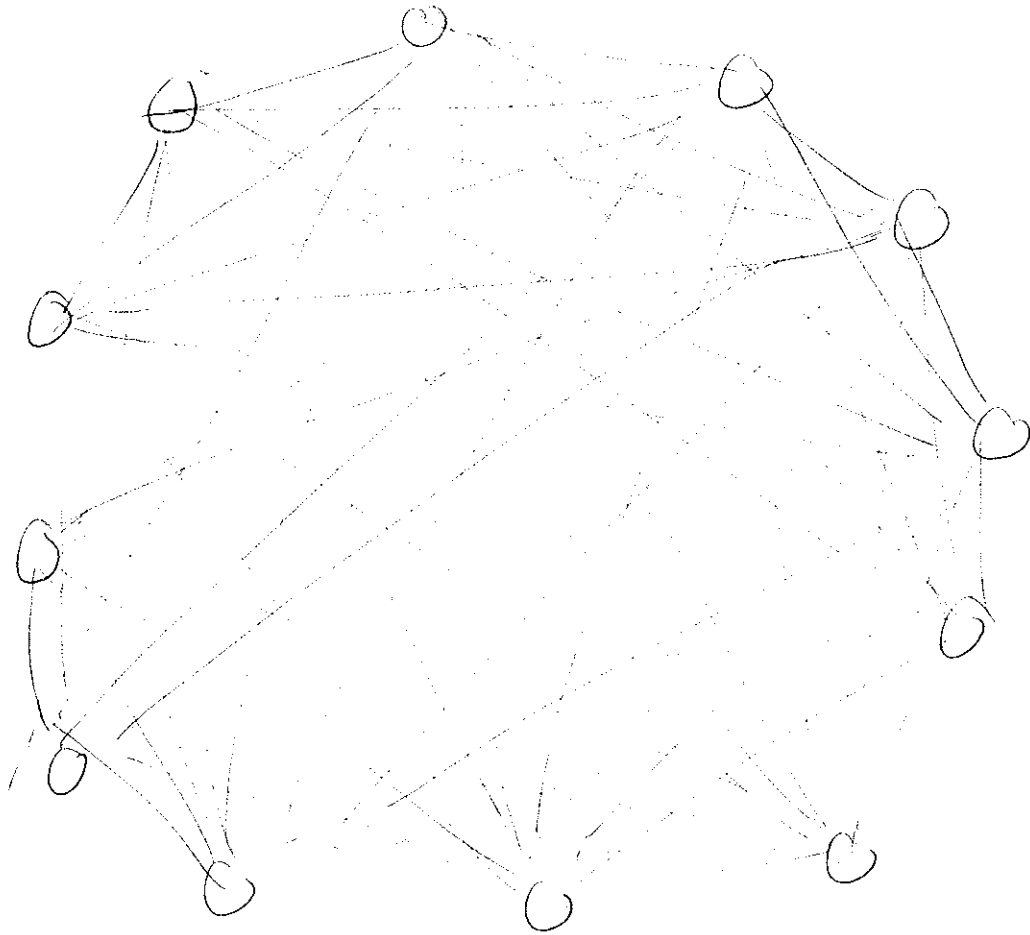
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Two or more individuals brainstorming, planning, and implementing a central idea or problem

Two or more individuals that are collectively brainstorming, planning and implementing a central idea or problem.

Two or more individuals that are collectively brainstorming, planning and implementing steps towards the resolution of a central idea or problem.

- Willingly working with a team member(s) towards a similar goal. Using each others strengths to work as efficiently as possible
- Idea & solution sharing
- Sharing experience.



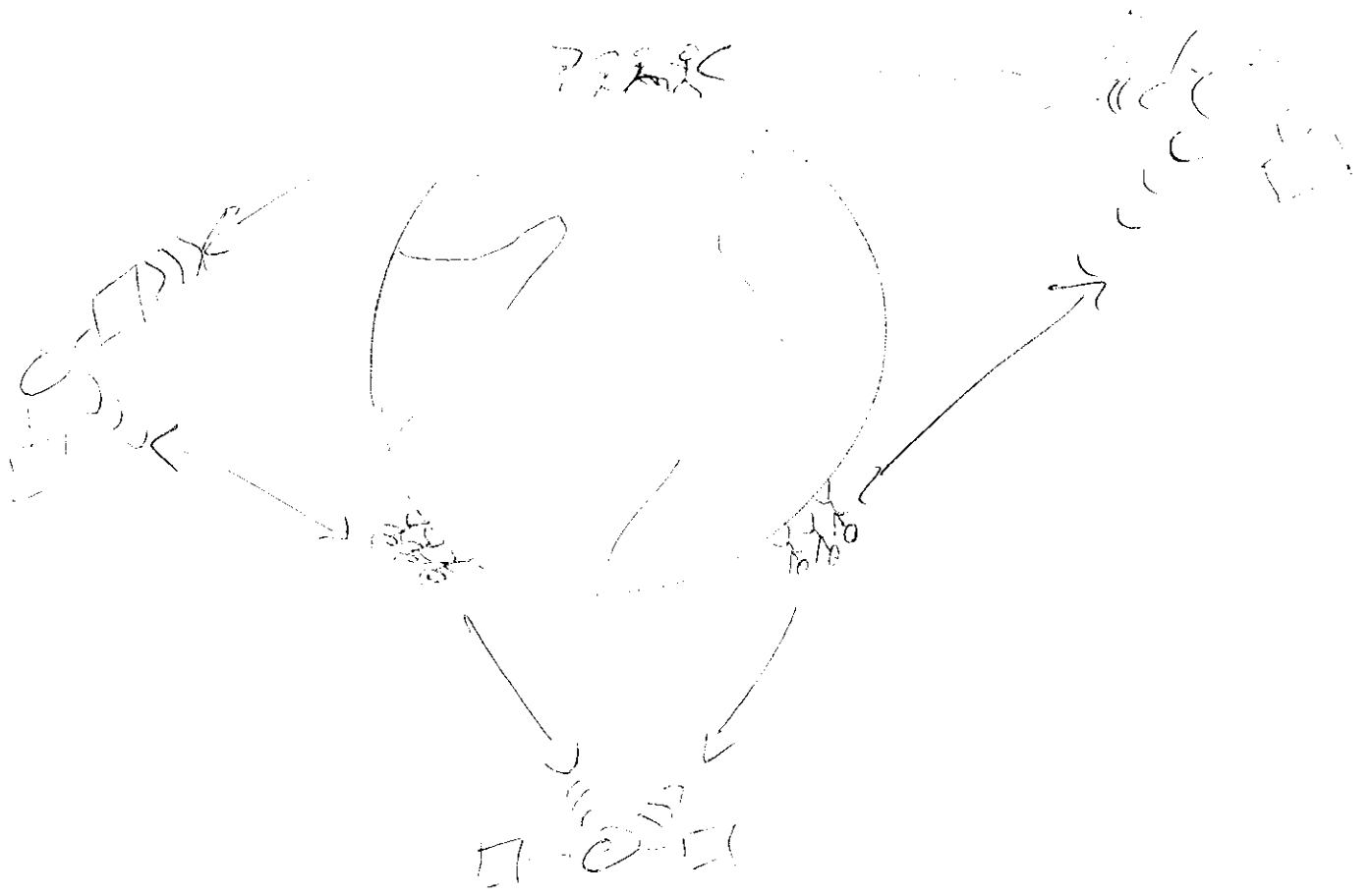


Share ideas

TO

Build A

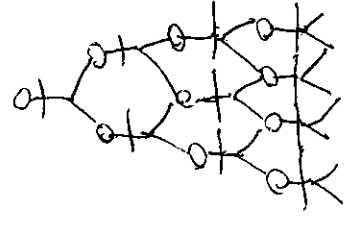
Better . . .



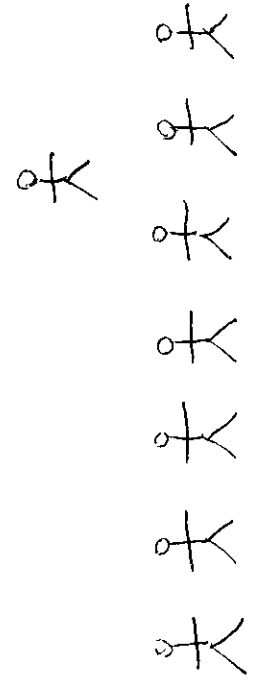
## Collaboration

- Sharing of ideas
- Brainstorming
- analysis of possibilities
- working together - toward a shared goal.
- Sharing expertise
- helping others in group
- Learning from others
- developing interpersonal skills

"CASTELL"



collaboration.



no collaboration

Collaboration means . . .

Sharing ideas

Working together

Communication

Researching

- Equal sharing of ideas & talents

interaction among persons ~~in~~ <sup>within</sup>

a group or between 2 or more groups.

- All contributing, being respectful of all opinions