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Always adjust the robot

Some websites that might be helpful:

[www.firstWA.org](http://www.firstWA.org)  
[chiefdelphi.com](http://chiefdelphi.com)

Email: [estokely@gmail.com](mailto:estokely@gmail.com)

Disqualifications

- Taking balls out of high goal
- Pinning another robot
- Letting the bonus ball out too early
- Shooting on the outside goals early
- Touching the lower bar during the end game or autonomous period
- Blocking a ball from a goal
- Using a blocking mechanism ie: sail
- Coach or drivers handling the game pieces

Possible Designs:

- Surgical Tubing
- Piston to push balls out (only legos)
- Pinwheel
- Water mill design
- It needs to be 17 to 17 1/2 inches not 18 inches to be safe

Engineering Notebook Notes:

- Needs to include:
  - What you did and why
  - Tables and graphs
  - Has to be a print out
  - Discussions with group
  - Group biographies

Team Management Notes:

- 1-10 students per team
  - small team concept works well
- 1-4 students is equal to one mentor
  - recommend 2 to 3 mentors per team
- Competition is the 13th of December
- Mentors:
  - Keep aware of deadlines
  - take pictures of events
  - Team building exercises

- Group of students does not constitute a team
- Facilitate a collaborative and supporting learning environment (make it fun)
- Teach problem solving
- Keep it sweet and simple (KISS formula)
- Help ensure it stays fun
  - meet and eat
  - Social events to do together
- Assigned a number
- Spend time on designing a logo
  - Include:
    - A motto
    - “tag line”
    - Building exercise
- Conduct mentor/leader meeting
- Hold team kickoff meeting
- Establish roles and responsibilities:
  - Building/design
  - Schedule
  - rules/strategy
  - operators
  - coach
  - Project manager
  - Hardware and tools
  - Videos and pictures
  - Engineering notebook
  - fundraiser/team spirit
- Establish design tools and libraries
  - CADD
  - Software development
  - Parts and code libraries
  - Collaborative workspace environment
- Build a schedule (or plan)
  - Microsoft project
  - Schedule is a living document it will change
  - If schedule keeps moving to the right you are in trouble
- Time management:
  - 12 weeks until competition
  - 2-3 hour meetings
  - meet a couple times a week
- keep a collaborative environment
  - Microsoft Office Live
- [www.ptc.com/go/first/workshops](http://www.ptc.com/go/first/workshops)
- software version control
  - Archive current version of software code
  - Everybody must have access to software
- Strategy and design
- Hardware design and development
- Build a reliable robot

Understand points  
Brainstorm many ideas  
Don't get focused on one thing  
Keep it simple

Testing:

- Build a little, test a little
- Focus on tele-operated
- Time/scoring
- Build a Feild

No loose leaf binders

- hard bound form

Chec rules for electronic manual

Don't wait to finish it

- Thoughts
- Simple information
- Short summary
- Diagrams
- 5-10 journal entries marked
- Neat and organized
- Topic, meeting date, who's there, title

Electronic design

USB drive

Laptops with latest version

Event Day Notes:

State Championship

- December 13th in Bellevue Highschool

- 8 a.m to 6 p.m.

- Some judging December 12th

Morning will include:

- Robot inspection
- Practice rounds
- Judging

8 am to 11 am

Judging will include:

- Interview with judge panel
- Engineering notebook check (critical)

Engineering Notebooks:

- Highlight things
- Check handbook for details
- No unneccasary

Give something to them to remember you by

- Good logo
- T-shirts
- Buttons
- Trinkets
- Stand out

Two fields running at the same time

Bring laptop and controller to practice with

Do not reschedule if you are not there

Contest format:

- Qualification matches

- Alliance selection

- Elimination rounds

Gather information about other teams

- Exchange information so they get to know you

Awards :

- Check handout for details

Attendance:

Edwin  
Christian  
Julia  
Andrew  
Amelia  
Kenneth  
William  
Brian

Tasks:

General design and mechanism for shooting in the different goals  
Figure out the schedule for the robot  
Mechanism v.s. software aspects  
Important Dates

Important dates:

Competition is December 14  
Robot complete by October 29th

Scoring:

Low goal - 1 point  
High goal - 5 points  
Outside goals - 10 points  
Releasing a far ball drop - 10 points  
Releasing a close ball drop - 5 points  
Yellow ball - doubles the score of every ball in the goal

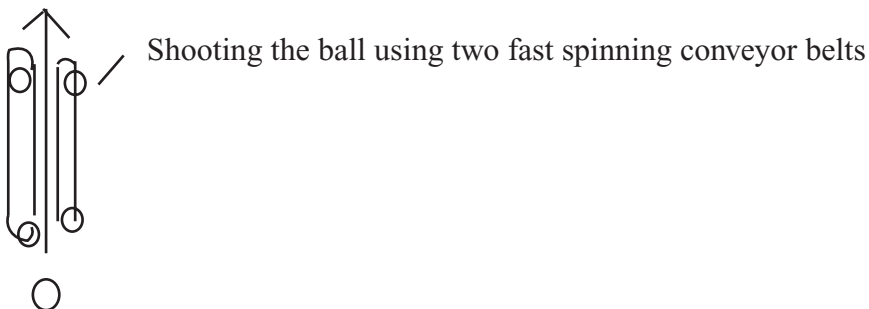
Strategy:

Autonomous mode target: low goal and high goal (issues with high goal because of spinning)  
Tele - operate target: low goal and high goal  
End game target: Outside goals with the yellow ball

3 mechanisms

Pick up balls  
Bring balls to shooter/ storage  
Shoot balls

Possible design for shooting balls:

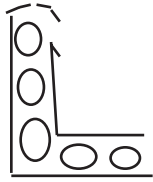


Kiss - keep it short and simple - very easy to build something complex but it is hard to build something simple that does something complex

Specialize in one task specifically and get that done with good reliability

You are allowed to have a 3 inch PVC

Serpentile design:



Compact balls into one serpentile tube

Non-stick pad for creating a conveyor

Surgical tubing 24 inch long

Omni Wheels could be a possibility

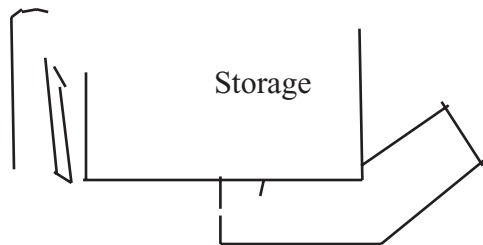
They would help follow the goal

You would lose traction

Use two wheels that can pivot

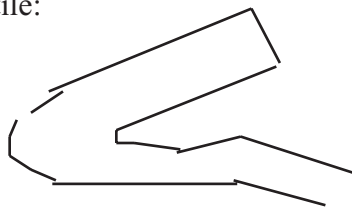
Possible designs:

Basket idea:



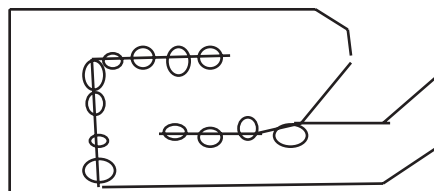
Takes up a lot of space  
Might jam

Serpentile:



Does not take up much space because all one system  
Not easy to control

Conveyer:



Combines both the serpentile and the basket idea  
May take up too much space

Attendance:

Edwin  
Christian  
Andrew  
William  
Amelia  
Julia  
Brian  
Kenneth

Tasks:

We need to start thinking about what specifically the mechanisms need to achieve  
We need to think about the strategy a little bit more  
Focus on brainstorming and designing some of the mechanisms

Autonomous period:

We need to program 4 different routes  
One mechanism to release balls  
One mechanism to drop balls

Tele-operated:


One mechanism to suck in balls  
One mechanism to shoot the balls  
One mechanism to dump balls into the lower goal  
By the end we want to start moving to the ball tube to receive yellow ball in the endgame

End-game:

All the things you can do in tele-operated  
Shoot into the outside goals  
Get yellow balls  
Still legal to suck up balls

Three mechanisms (possibly two)

Suck up balls  
Shoot balls  
Dump balls



Three mechanisms

Reversing the suck to release balls

Slow the speed of the shooter so the ball dribbles out (possibility of bouncing into the adjacent goal)

Release ball shoot

Side strage specifically for yellow ball is a possibility

If you pick up the yellow ball you want it to be the first thing you shoot

Funnel ramp

Conveyor belt (slight squeeze)

Wheel with paddles

Material that is a little spongy



#### Sensors:

- Ir sensors n the high goal
- Light
- Sonar
- Touch
- Sound

#### Design Brainstorming

##### Collecting balls:

- Herd the ball underneath the robot
- Blades for picking up the balls off the floor
- A conveyor belt that squzzes the ball in
- Lift up and toss the balls (arm)
- Vaccum
- Rotating brush to herd balls into the hopper

##### Storage:

- Low basket
- Open front into a container
- Funnel
- Serpentile design
- Track
- Shelf (trap door for releasing the low goal balls)
- Ball tube
- Spiral cylinder track
- Color sensor seperates the yellow ball our (maybe too complex)

##### Dumping:

- Passive
- Conveyor belt (reversed)
- Reverse brush
- Basket base conveyor belt reversing
- Gravity feed
- Trap door for spiral or conveyor belt
- Ramp for picking up balls to shelf so higher up use a mechanism for dumping
- Trap door for the basket

Attendance:

Edwin  
William  
Brian  
Andrew  
Kenneth  
Amelia  
Julia  
Anthony (new member)  
Christian

GDC - Game Design Committee

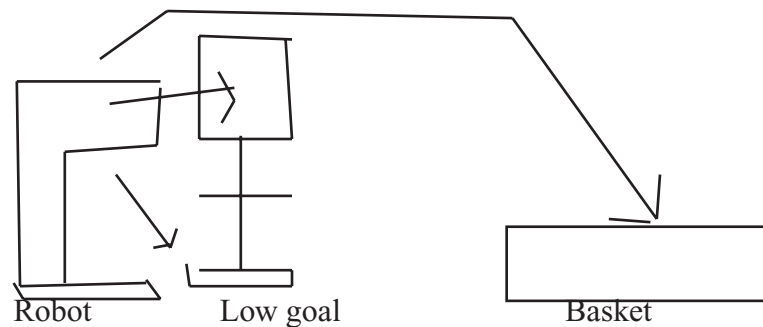
- Low goals run the risk of being removed and they are only worth one point each (may not make much of a difference to the overall score)
- Side goals risk the time limit with the fact that you can only shoot on them for the end game (30 seconds)
- High goals run the risk that the bar spins and you might not make your shot. This could be potentially harmful although you would not lose points you would lower the opportunity for a larger score

Defence:

Block/inhibit  
Not many points  
Crash into other robots

Offensive:

Possibly fragile (cannot attack)  
Usually shoot  
Gain points



One in the low goal is a defensive shot you are not really trying to go for the points but you have your 8 pre loaded balls to get rid of

The shots into the high goal and the basket are offensive shots because you are trying to earn as much points as possible.

Programming:

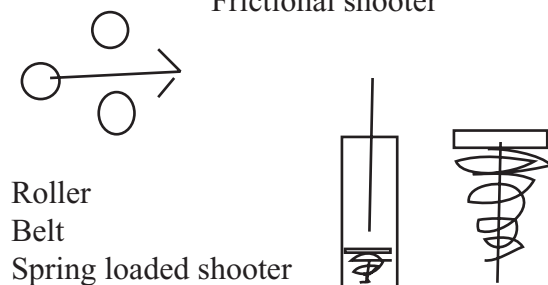
Do not want sound  
Cannot have camera tracking (too complex and does not come in the kit)  
Possibly use color tracking

A passive sensor is one that you control yourself

An active targeting sensor is one that tells you when it receives the IR signal

Mechanisms:

Pressure in the form of conveyor belt shooter  
Frictional shooter



## Fracturing 1

Subsidence

Water

Group 1:

Water > pressure  
- pressure

Group 2:

Water > pressure  
- pressure

Group 3:

Water > pressure  
- pressure

Fracturing 2

Fracturing 3

Water > pressure  
- pressure

Fracturing 4

Water > pressure  
- pressure

Water > pressure  
- pressure

Fracturing 5

Water > pressure  
- pressure

Fracturing 6

Water > pressure  
- pressure

Water

## Fracturing 1

Water > pressure  
- pressure

Fracturing 2

Fracturing 3

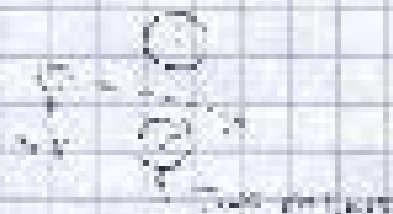
Fracturing 4

Fracturing 5

Fracturing 6

Fracturing 7

Group 10



### Conclusions

We started working on the preparation for  
diene synthesis and reactions. We found out  
that there are several reactions and we can  
use the diene, diene + alkene, diene + alkene  
system.

## The Correlation Study

Abstract: 8

- |                       |                       |
|-----------------------|-----------------------|
| 1. <i>Chlorophyll</i> | 2. <i>Chloroplast</i> |
| 3. <i>Chlorophyll</i> | 4. <i>Chloroplast</i> |
| 5. <i>Chlorophyll</i> | 6. <i>Chloroplast</i> |
| 7. <i>Chlorophyll</i> | 8. <i>Chloroplast</i> |

10

14550

- Long life span
- Parent care & nest? (prolonged incubation)
- High young but high and unpredictable
- High risk (predators)

### Review of the Study

1. Procedural - how to do it  
 2. Substantive - what to do  
 3. Policy - why to do it

2

There is a lot of information about the world  
you can find in the Internet. It is a very  
big world of information.

- Disorder caused by an abnormal
- function within the central nervous system is characterized
- by the unorganized
- thought and emotional activity that is disorganized
- and may be caused by any cause
- but usually has no physical cause to be recognized

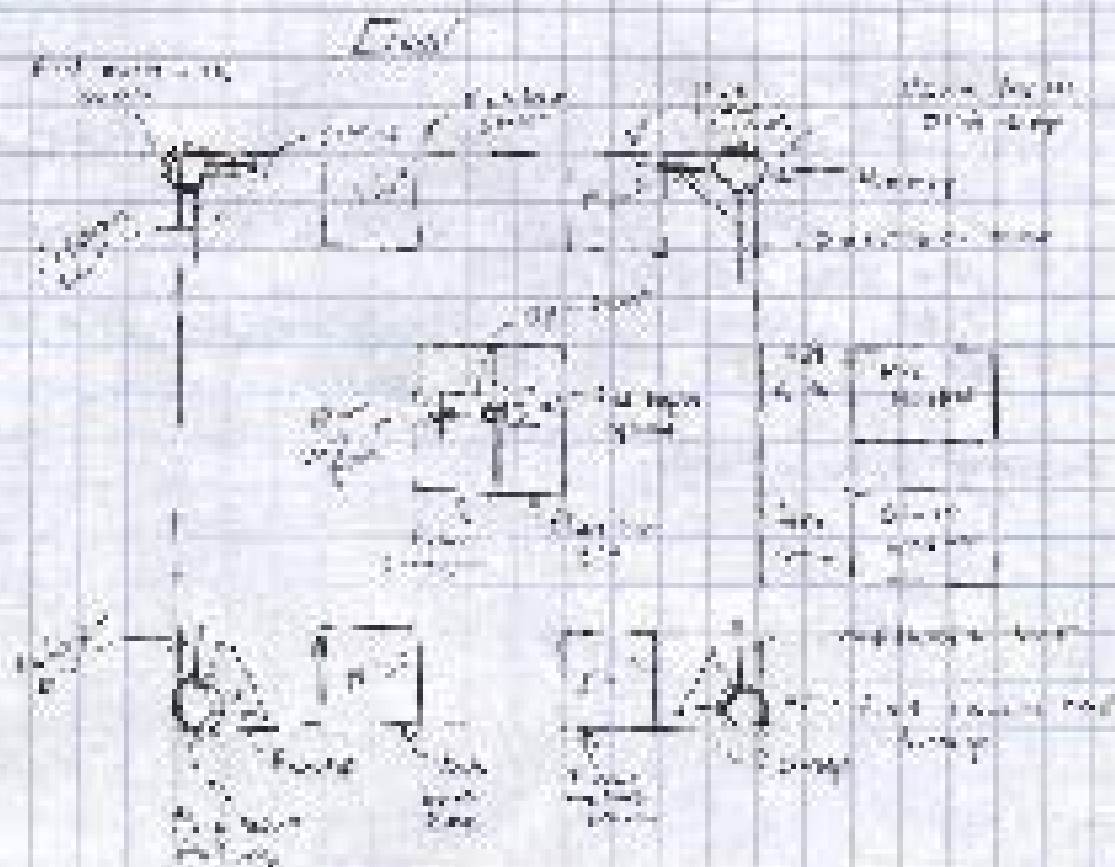
### Spelling Tutor: Page 3



$\frac{d}{dt} \left( \frac{1}{\rho} \right) = - \frac{1}{\rho^2} \frac{d\rho}{dt}$

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

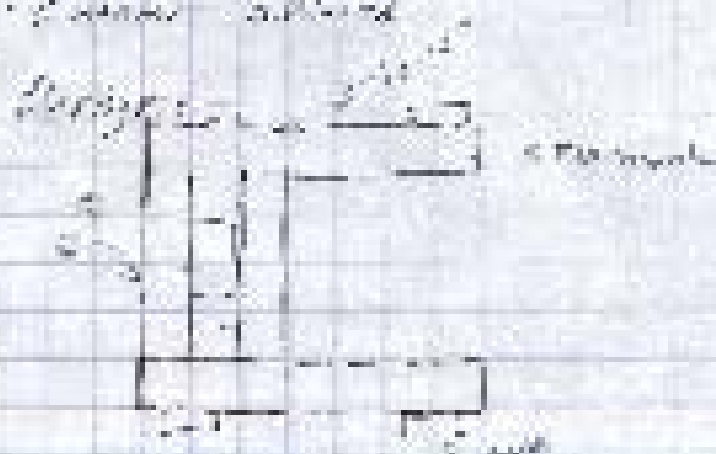
Order: *Grasshopper* 1st. 4th. 5th. 6th. 7th. 8th. 9th. 10th.



10

Don't

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408</
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2000

Environ Biol Fish (2015) 98:1131–1141

1. *Chlorophyll a* content was determined by measuring the optical density of the chlorophyll extract at 663 nm using a spectrophotometer. The concentration of chlorophyll *a* was calculated using the following equation:  $\text{Chlorophyll } a \text{ (mg/L)} = 12.7 \times \text{OD}_{663}$ .



be certain that your shipping is correct before  
you attempt to send it. It is not so  
the same before  
the we want to see your the goods  
and the send you in the next in  
the shipping instructions. It is not so  
the we want.

Review the facts

is the correct to send the amount of  
goods in the ship.

to the correct. It is not so. It is not so.

to the correct to send the amount of  
goods in the ship.

Summary of the facts



## Quadratic Equations

### Algebraic

Quadratic Equations  
- Linear  
- Quadratic  
- Cubic  
- Quartic

(The order of the equation  
determines the degree of  
the equation)

### Graphical

Graphical representation of the equation  
by plotting the points (x, y) on a graph

(The graph of the equation  
is a curve)

- The graph of the equation is a curve
- The curve is a parabola
- The vertex of the parabola is the point (h, k)

### Factoring

1. The equation is in the form  $ax^2 + bx + c = 0$
2. The equation is factored into the form  $(x - p)(x - q) = 0$

The roots of the equation are the values of x which satisfy the equation

The roots of the equation are the values of x which satisfy the equation

(The roots of the equation are the values of x which satisfy the equation)

The roots of the equation are the values of x which satisfy the equation

The roots of the equation are the values of x which satisfy the equation

[illegible]
$$\frac{d^2 \phi}{dt^2} = -\omega_0^2 (\phi + \alpha \phi^3)$$

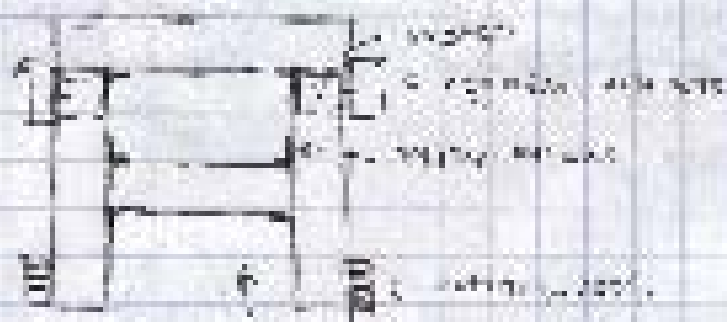
Continued on p. 2

22.  $\frac{1}{2} \log_2 256 = 8$  (because  $2^8 = 256$ )

Yes, we get a different grade with better roads.

The above report shows that there are no significant differences between the two groups.

2. Was ist die Länge für  $\epsilon = 0.001$ ?



12/20/2014 2:00 PM

17. October 2007

Findings

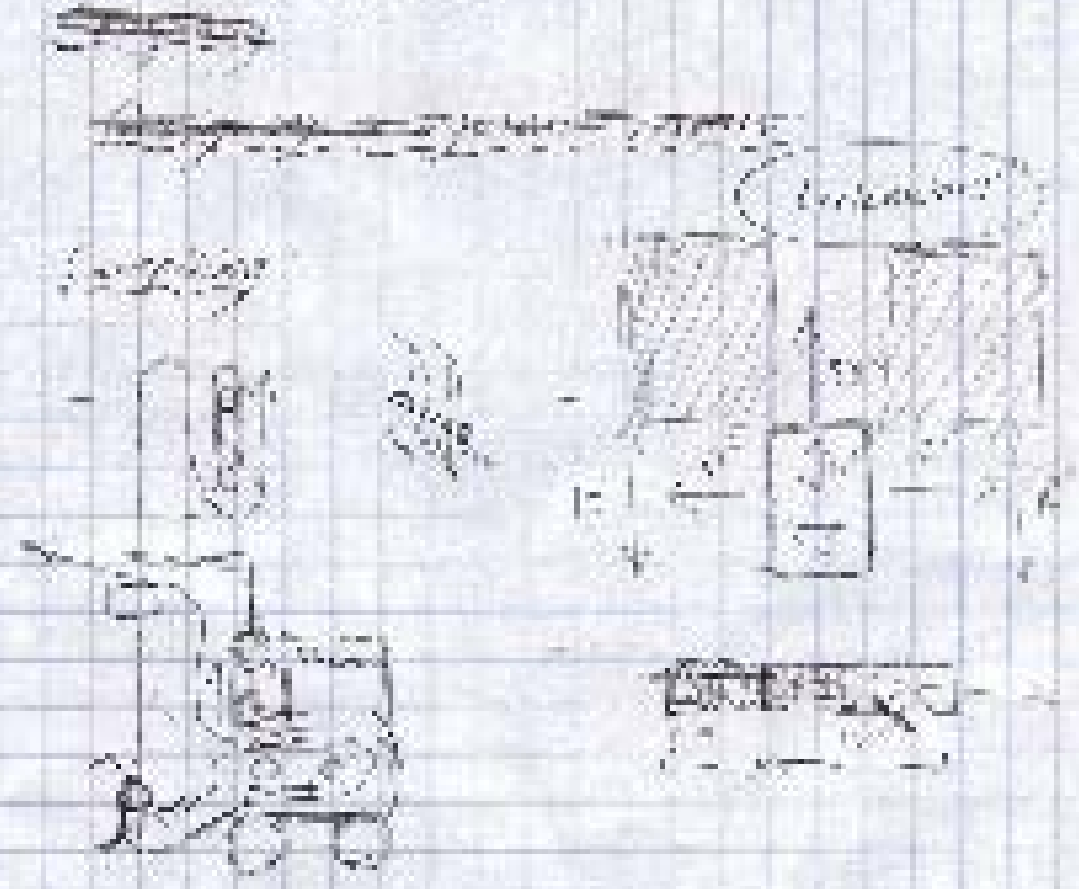
- |          |          |
|----------|----------|
| • 1000 m | • 1000 m |
| • 1000 m | • 1000 m |
| • 1000 m | • 1000 m |
| • 1000 m | • 1000 m |

Measurements in the field

- 1000 m
- 1000 m
- 1000 m
- 1000 m

Remarks on findings

- 1000 m
- 1000 m



## 2. Second Day

### Appearance

- Spent time
- 2 weeks
- 1 week
- (Comparison)

### Remarks

- 1st time procedure on
- 2nd time procedure
- 3rd time procedure
- 4th time procedure

### Results

- 1st time procedure on
- 2nd time procedure
- 3rd time procedure
- 4th time procedure
- 5th time procedure
- 6th time procedure

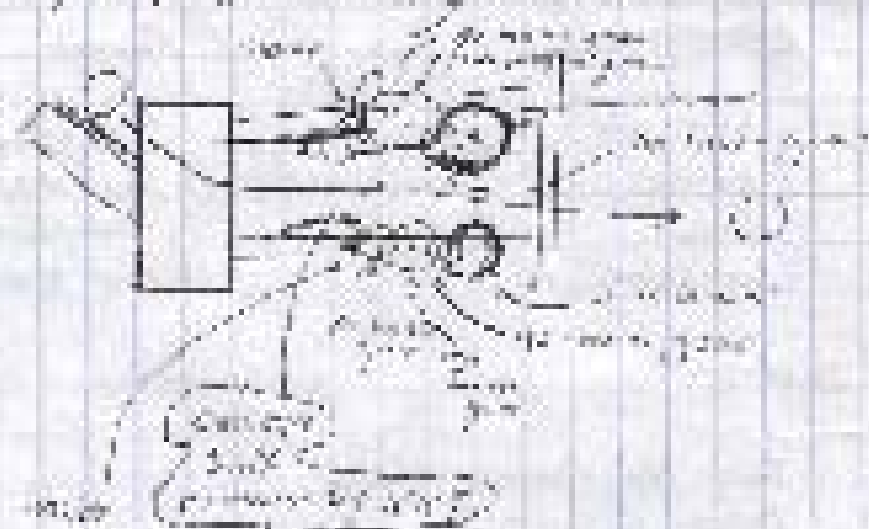
### Summary of results

- 1st time procedure on
- 2nd time procedure
- 3rd time procedure
- 4th time procedure
- 5th time procedure
- 6th time procedure

Results - 1st time procedure on

	1st time	2nd time	3rd time	4th time	5th time
1st time	✓	2nd time	3rd time	4th time	5th time
2nd time		3rd time	4th time	5th time	6th time
3rd time		4th time	5th time	6th time	7th time

Boat's life cycle in a learning system



- Controller and Sensor are the main components of the learning system.
- The controller is responsible for the learning process.
- The sensor is responsible for the data collection.
- The motor is responsible for the action.
- The propeller is responsible for the movement.
- The rudder is responsible for the direction.
- The steering wheel is responsible for the control.
- The compass is responsible for the orientation.
- The map is responsible for the navigation.
- The destination is responsible for the target.
- The goal is responsible for the objective.
- The success is responsible for the achievement.
- The failure is responsible for the setback.
- The restart is responsible for the recovery.

2000-2001

November 27, 1955 (Coke)  
 B. 24 30 1200

Abstract

1. *Chlorophyll a*  
 2. *Chlorophyll b*  
 3. *Carotenoids*  
 4. *Xanthophylls*

1. Introduction  
 2. Background  
 3. Methodology  
 4. Results  
 5. Conclusion

2011



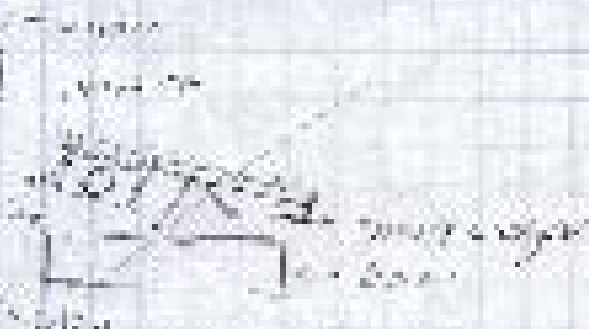
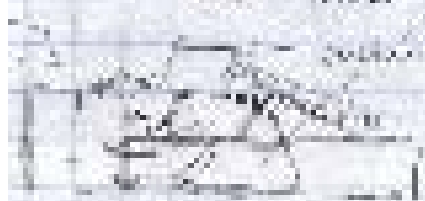
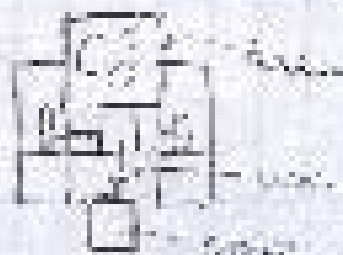
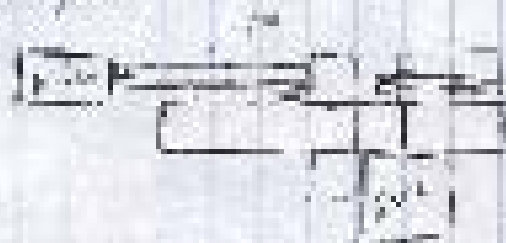
100

Placing the horizontal layer  
along bottom with the original layer - a new  
sheet in the same position

Age (years)	20-30
-------------	-------

12. *Chen, Y. and J. H. Chen. 2002. The effects of the 1997 Asian financial crisis on the export performance of Chinese firms. Journal of International Business Studies 33: 101-113.*

2000



7. *Stenobothrus*  
*Stenobothrus*

The problem is finding  
largest intervals.

We added two more songs to the  
Shaper (outlined in yellow.)

17 October 2019

14

Iterations:

• Initial

• Iteration

• Iteration

• Iteration

• Iteration

• Iteration

Refinement of the work:

• Initial 2 iterations to correct

the work in the first

iteration of design

• Iteration

Task for today

• Play a game of cards (winner loses all)

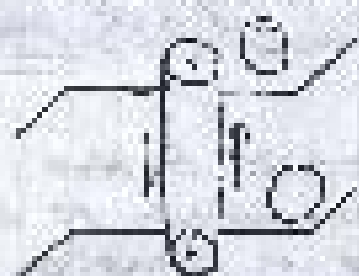
• Card game system

• Moving balls up to the board (the top of)

• Compiling

Compiling

Transition idea from design to design



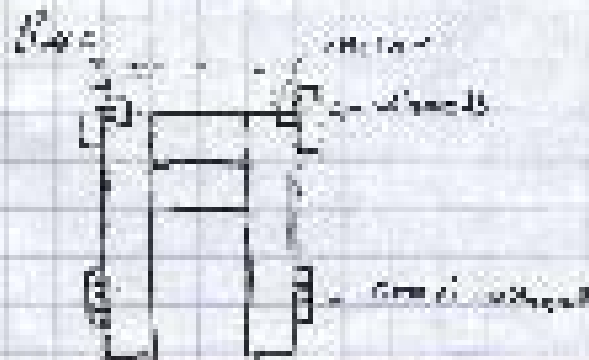
Collecting idea



Design

Only standing mechanisms is necessary to indicate

One Act design





## Conveyor system

Probably large motor  
Use wheels for best

Problem -

• cannot get wheels low enough to touch the bottle body

- A possible solution is lowering the conveyor base for the conveyor belt.

Can you identify a motorized?

You will now use what will help our motor running the conveyor belt.

Work with connecting

We added attachments to the bottom of the steering mechanism to connect it up. We removed a couple of gears because they were blocking our motor.

20 October 1979

### Attendance:

- |           |            |
|-----------|------------|
| - Brian   | - Edman    |
| - Cynthia | - Timothy  |
| - Pamela  | - Patricia |
| - William | - Gregory  |

### Tasks:

- Create initial system
- build full-scale prototype
- Address customer requirements
- Create issues

The Manager is going to be attending with us on the 2nd.

Sub checked to take all the materials in the system.



### Monitoring

Data		Program	
Input	Output	Input	Output
Strategic planning	Cost/benefit analysis	Strategy	Design & development
		Hardware	Software

We are mounting the relative measurements  
into the log.

~~Handwritten scribble~~

Let's suppose that from each column is an  
the first word reg. which is at the  
beginning of each. Initials first word each.  
The other two was reversed probably  
with some table (not going) for other  
words.

~~Handwritten scribble~~

24 October 1987

### Attendance

- |           |           |
|-----------|-----------|
| - Michael | - John    |
| - David   | - Stephen |
| - Andrew  | - Kenneth |
| - Tina    | - Anne    |

### Topics

- Large sample prototyping
- Clinical applications
- Speech synthesis

### Notes of discussion:

- We discussed the use of the computer-based system in regular meetings.
- We discussed the use of the system in the laboratory.
- We discussed the use of the system in the field.

### Changes to be made

- Plans to get out of the system.
- The need for a training in the use of the system.

### Personnel changes



### Concluding remarks

We need to make a decision on the future of the system. We need to make a decision on the future of the system.





It will probably have a sealed lamp return system  
to bring the air into the room again.

We are sorry to hear of your illness & hope  
you soon recover. We know you will  
not make changes.

It would be better to have some kind of a way out to the overwater to all around all the other areas is preferable.

November 2001

Thursday

- Kenneth Johnson
- Emma Austin
- William Brown
- John

Friday

- O-rings
- Elastic mechanism coupling

- We used to make the same design  
before 1980s

- The problem with the old design  
is that it was (poor quality)



- (poor)
- (poor quality)

- We have decided to use the same  
the plastic on the future

- There are some limits for the material  
of the new (plastic) of the future

- One of the problems we had was that  
the plastic was not able to handle  
the stress.

- The reason to that is that the plastic is not

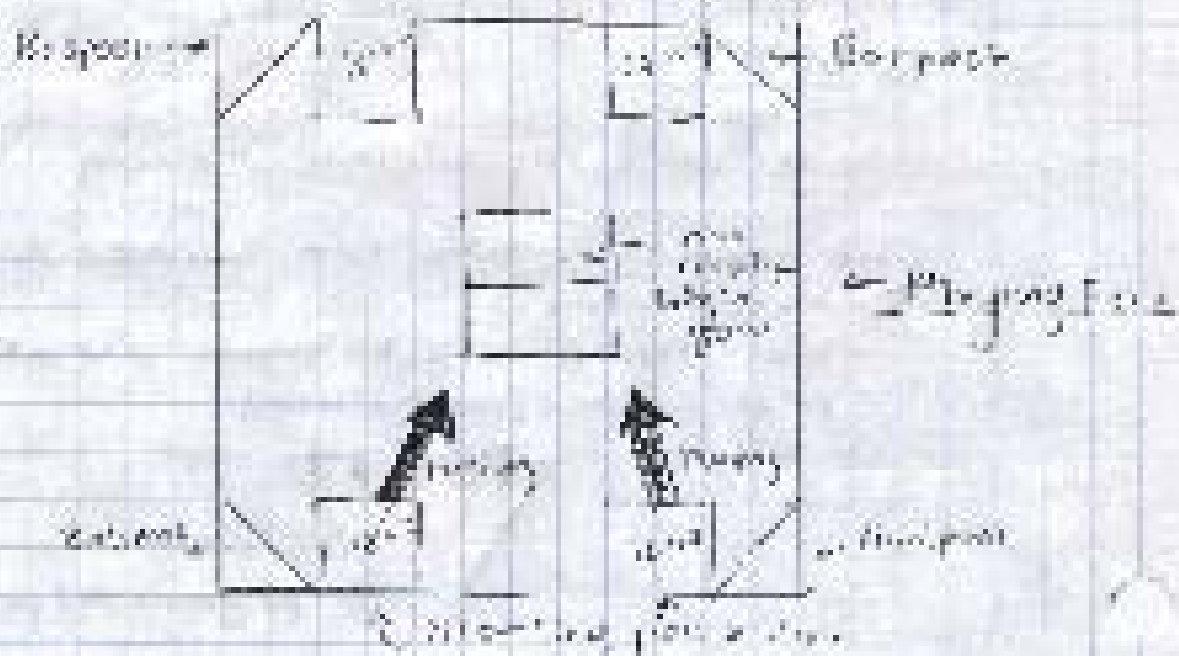
Before  
1-1

After  
1-1

This should be done  
and allowed to  
pass by

- German course is characterised by two main aims:  
1. programme for 10 years.

- The two main aims are: to teach German  
- to help students learn a new language  
(and for 10 years, and for 10 years)



- In fact, the German course is not just a course in German, but a course in German.



## 2 November 2009

### Attendance

- |             |           |
|-------------|-----------|
| - Richard   | - William |
| - Catherine | - Simon   |
| - Diana     | - Andrew  |
| - Anna      |           |

### Stamps with regard

#### Programming

- Don't forget testing
- Needs to be done

### Mathematics

- Integration / differentiation
- Probability / statistics
- Looking at the geometry of the system

### Topic

- Learning to use the system in a practical way
- Planning the programming

### Programs as a system

- Programming in a system
- Looking at the system
- Looking at the system

There is a need to get the system to work in a practical way.

We need to have the system to work in a practical way.

We need to have the system to work in a practical way.

- We can't get instantaneous reading because it is not always possible

- For the following things have to be

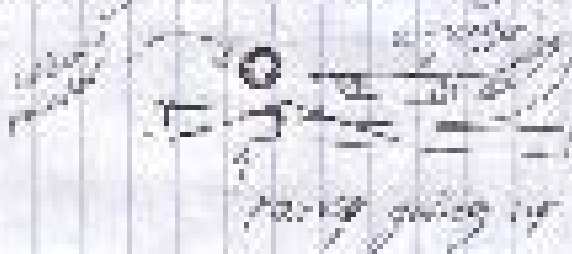
Considerations -

1. Why does water move from one place to another? (Pressure difference, temperature difference, etc.)

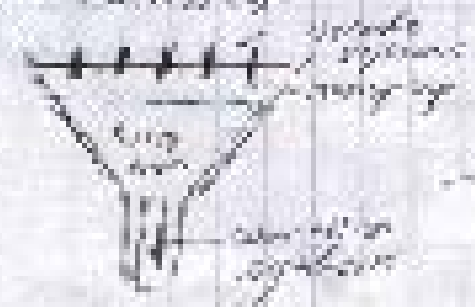
2. Why does water move?

Can not move without pressure

3. Why does water move from one place to another? (Pressure difference, temperature difference, etc.)



From the side



From the top

Good water pressure is very costly and the water pressure has to be higher than the water level. The only way to get water is to go to the top. The only way to get water is to go to the top.

Considerations -

- We are going to produce water from a source and have to transport it to the place where it is needed. We can do this in two ways: 1. By using a pump. 2. By using a siphon.

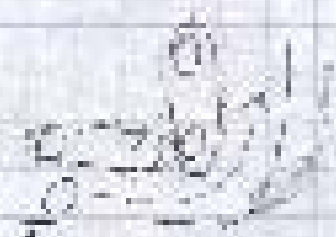
- It works with the same principle as the siphon. We have to have a higher level of water in the source than in the destination. We can do this in two ways: 1. By using a pump. 2. By using a siphon.

the small preceding path-order system has failed to support the system and network

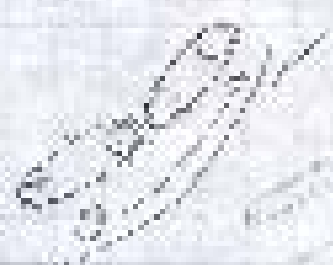
the will need to support for success to keep the system from collapsing

the team is thought that the will change the layout of the network system to make a more efficient system & improve efficiency

Diagram



Diagram



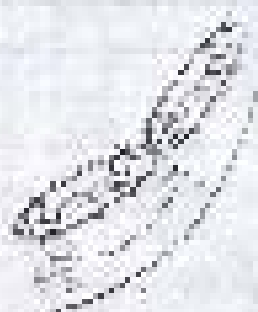
the possibility of a more efficient system is being explored

the team is thought that the will change the layout of the network system to make a more efficient system & improve efficiency

the team is thought that the will change the layout of the network system to make a more efficient system & improve efficiency

Completed 7 November 2000

Part 1: The network system



1. Node - C - central node

2. Node - A - primary node

3. Node - B - secondary node

4. Node - D - tertiary node

5. Node - E - quaternary node

- the major function of the judiciary is to make the law and the constitution provide for a system by making a better.

- Parliament has the power to amend the constitution
- Congress is not subject to impeachment

- the court is not a political body and does not pass the laws, but it is the only body that can pass the laws and the constitution.

28 November 2008

### Attendees:

- Catherine
- Andrew
- Eileen
- Fiona
- Eileen
- Eileen

### \* Clabber:

We have a new  
larger curtain hook  
with it.

### Notes:

- ✓ - Carina and Eileen
- ✓ - From the Carina's house to Eileen
- ✓ - Missed a call (Missed a call)
- ✓ - Eileen is the right thing to do
- ✓ - First call, Eileen with the phone
- ✓ - Whistle back, Eileen with the phone
- ✓ - All the other

### Solutions:

- Eileen and Eileen were Eileen the phone  
and Eileen the phone. Eileen the phone  
the phone.

- For Eileen, Eileen the phone with the  
phone was decided to Eileen the phone  
the phone the phone the phone the phone.

- For Eileen, Eileen the phone the phone  
decided to put a ~~the~~ Eileen the phone  
the phone the phone the phone the phone.



Corner is  
Eileen the phone  
the phone the phone the phone the phone.

There is a Eileen with Eileen the phone  
the phone the phone the phone the phone the phone  
the phone the phone the phone the phone the phone.

A solution to this problem is to use  
an active magnetic deflection to move  
the beam.

This ended up working so the beam had  
a strong current that deflected.

In some cases, to get lower, we can use a  
active magnetic deflection.

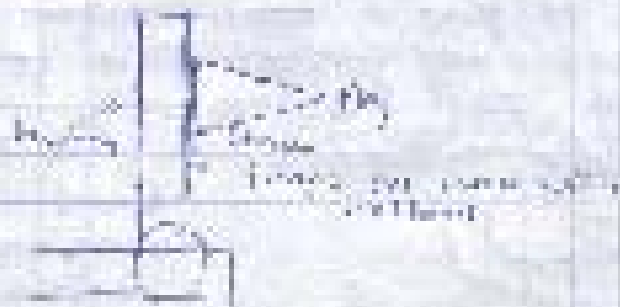
No. Conclusion:

There are several ways to move a beam, we  
can use a deflector. We can use a deflector  
and then produce with the deflection beam  
positioning and for that the magnetic field  
deflects. We decided to use a deflector and produce  
our deflection and control it with a deflector  
beam. Overall it was a successful  
experiment.

Flag is a beam with flag on the end

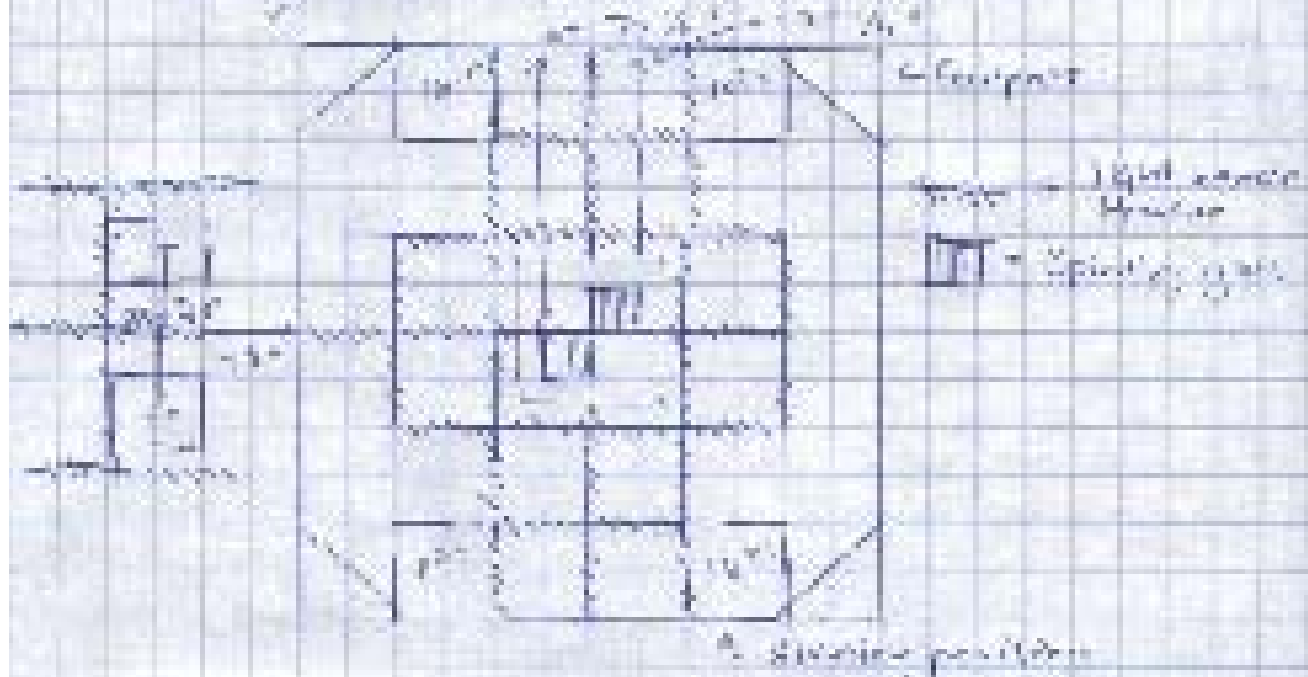
Flag is 1' high and 1' long  
Flag is 1' long

We will eventually use a deflector to move  
the beam.



## Liquid extension + hold

Problem is a given square that contains 20 holes arranged in four rows of five holes. The holes go to close on with 10 pins which



DOI: 10.1002/eqm2

## References

- |                        |                        |
|------------------------|------------------------|
| • <i>Chlamydomonas</i> | • <i>Chlamydomonas</i> |
| • <i>Chlamydomonas</i> | • <i>Chlamydomonas</i> |
| • <i>Chlamydomonas</i> | • <i>Chlamydomonas</i> |
| • <i>Chlamydomonas</i> | • <i>Chlamydomonas</i> |

2000

- Add support to `Worker` (the Java program)
  - the `download` method
  - `Grow up` or `rebuild`
  - `Test` to create a `Worker` instance

She also is looking forward to taking a vacation in the summer.



5 November December 2001

Agenda:

- Welcome
- Ethics
- Agenda
- Intro
- 

\* We are all without  
books today so that  
there will be a  
discussion

Topics:

- We need to have some values (practices)
- We need a curriculum for our class