ONLINE REVIEW CHAT: IB BIOLOGY HL SENIORS
October 29, 2009
TOPIC: Genetics and Biotechnology

8:49:30 PM Brielle: ms chien has entered the room
8:49:43 PM Annie Chien: ok at 9, you have the job of inviting everyone
8:50:29 PM Brielle: ok
8:50:44 PM Brielle: as long as everyone comes
8:53:09 PM Annie Chien: so far this year, you are my favorite student :-P
8:53:18 PM Brielle: yay!!
8:53:27 PM Annie Chien: you actually do the things I tell you without complaining
8:53:31 PM Annie Chien: last year it was stepha
8:53:33 PM Brielle: lol
8:53:44 PM Brielle: i'll try not to complain in class
8:53:45 PM Brielle: :-)
8:54:11 PM Annie Chien: if its stepha and you again im gonna just ask some left over questions and have you guys ask me questions
8:54:20 PM Brielle: ok
8:54:23 PM Brielle: sounds fun
8:58:59 PM Shannon: **hi**
8:59:35 PM Annie Chien: hi shannon we will start in 5 minutes
8:59:38 PM Annie Chien: just waiting for more people
8:59:38 PM Shannon: **k**
8:59:45 PM Brielle: yay!!
8:59:49 PM Brielle: more people!!
8:59:55 PM Brielle: SHANNON!!
9:00:01 PM Brielle: welcome
9:00:33 PM Annie Chien: stepha i have $50 for you
9:00:40 PM Brielle: wow
9:00:44 PM Brielle: where's mine?
9:00:48 PM Shannon: **yea**
9:00:58 PM Annie Chien: when you get the highest IB grade
9:01:36 PM Stepha: thank you
9:01:37 PM Brielle: on the IB test?
9:01:40 PM Annie Chien: yes
9:01:43 PM Brielle: ok idc then
9:01:45 PM Brielle: lol
9:01:46 PM Stepha: i feel bad accepting money from a teacher
9:01:51 PM Brielle: but nice job steph
9:01:53 PM Stepha: its weird
9:01:55 PM Brielle: lol
9:01:59 PM Annie Chien: its not money, its on a gift card to that store you said
9:02:05 PM Brielle: what store?
9:02:09 PM Stepha: its still werid ms.chien
9:02:15 PM Stepha: Forever 21 brie
9:02:18 PM Annie Chien: yeah

9:02:19 PM Brielle: nice
9:02:26 PM Annie Chien: ok ets start
9:02:28 PM Brielle: i got a cute outfit from there
9:02:31 PM Stepha: lol
9:02:36 PM Stepha: lets start
9:02:38 PM Annie Chien: dont be surprised if some of these questions are repeated from yeseryda
9:02:40 PM Stepha: and beast
9:02:55 PM Annie Chien: What is the role of sticky and blunt ends in biotechnology?
9:03:28 PM Shannon: **sticky ends are the long ends, blunt the short and they are there to allow for rejoining of nucleotides in gentetic modification**
9:04:01 PM Shannon: **right?**
9:04:35 PM Annie Chien: shannon - correct
9:04:37 PM Annie Chien: beast
9:04:44 PM Brielle: the sticky ends and the blunt ends make up the differences in size
9:05:02 PM Brielle: next question
9:05:27 PM Annie Chien: Describe how scientists are revolutionizing organ replacement using cloning technology (you must describe the process).
9:05:49 PM Stepha: they are revolutionizing it by making it quicker
9:05:58 PM Stepha: and since now we have stem cells to work with
9:05:59 PM Annie Chien: need specifics
9:06:14 PM Stepha: we can make organs out of unspecified cells
9:06:30 PM Annie Chien: ok, what is the significance to that?
9:06:30 PM Shannon: **they take a cell from a host, remove the nucleus and replace it with the one desired. they let it grow and they specifiy it for the organ needed**
9:06:45 PM Annie Chien: shannon good, significance?
9:06:55 PM Brielle: because undifferentiated cells can be used to make anything, the scientists can use them to develop a specific organ that is made perfectly for the patient
9:07:04 PM Shannon: **they can grow, quickly organs and no longer need to look for matches in families or donor banks**
9:07:09 PM Annie Chien: SIGNIFICANCE?
9:07:12 PM Annie Chien: shannon - correct
9:07:16 PM Stepha: save more lives
9:07:51 PM Brielle: no waiting lists and ethical issues invloving which patients deserve the organs
9:07:57 PM Brielle: involving*
9:08:20 PM Annie Chien: stepha, dont say that
9:08:24 PM Annie Chien: shannon is good
9:08:29 PM Brielle: is mine?
9:08:31 PM Annie Chien: brielle: still too broad
9:08:32 PM Stepha: okay
9:09:02 PM Annie Chien: brielle: why would there be any ethical issues for patients getting their OWN organs from their own stem cells?
9:09:19 PM Brielle: well i was gonna say what shannon said but she was quicker
9:09:23 PM Brielle: so i added
9:09:25 PM Annie Chien: yeah yeah
9:09:28 PM Brielle: no not that
9:09:32 PM Annie Chien:

Discuss the benefits and drawbacks of using differentiated vs. undifferentiated cells in medical applications.
9:10:15 PM Stepha: benefits of using differentiated is that it is already specific to the organ and undiffernetiaited can be turned into anything
9:10:24 PM Stepha: opening possibilities
9:10:39 PM Stepha: for the patient to grow their own instead of waiting
9:10:53 PM Annie Chien: ok what is a benefit to using a differentiated cell?
9:11:05 PM Stepha: but undifferentiated you come into ethical questions
9:11:16 PM Annie Chien: stepha good
9:11:29 PM Annie Chien: what abou the differentiated - why dont you have ethical issues with that
9:12:08 PM Stepha: they are cells already specified so its not like your changing a desired cell or manipulating the genes for your own purpose ---playing god
9:12:14 PM Annie Chien: ok
9:12:25 PM Annie Chien: What is the role of PCR technology? How has it revolutionized DNA analysis?
9:12:42 PM Annie Chien: did anyone invited angela?
9:12:48 PM Brielle: i tried
9:12:55 PM Brielle: it wont work because its her phone
9:13:02 PM Annie Chien: oh ok
9:13:32 PM Shannon: **to replicate DNA to have more samples to look at. Allowing for more tests with less DNA needed, like trying to get evidence agfainst a suspect in a crime case**
9:13:51 PM Shannon: **against***
9:14:04 PM Annie Chien: good - can you give me another example of when PCR comes in handy, because crime cases
9:14:16 PM Brielle: paternity test?
9:14:20 PM Annie Chien: yes
9:14:22 PM Annie Chien: what else
9:14:23 PM Shannon: **thts wat i was gonna say**
9:14:26 PM Stepha: GMO foods
9:14:29 PM Brielle: ha beat you
9:14:30 PM Brielle: lol
9:14:31 PM Annie Chien: yes good what else
9:14:49 PM Annie Chien: what about forensic archeology?
9:14:55 PM Shannon: **making a gene u plan on entering into a vector to genetically modify food sources**
9:15:04 PM Annie Chien: shannon ok
9:15:11 PM Annie Chien: what about forensic archeology?
9:15:21 PM Shannon: **study cause of death of ancient peoples, bring back the wooly amoth**
9:15:25 PM Shannon: **mamoth***
9:15:43 PM Annie Chien: well dont say bringing back, say studying the genome of extinct animals and plants
9:15:49 PM Shannon: **ok**
9:16:00 PM Annie Chien: good
9:16:03 PM Brielle: not just their death but some of the qualities that they had
9:16:14 PM Brielle: that could tell us about their culture
9:16:17 PM Annie Chien: Discuss the potential benefits and possible harmful effects of one example of genetic modification.
9:16:30 PM Brielle: BT CORN!!

9:16:35 PM Shannon: **bt corn toxins in the same way as some mushrooms**
9:16:36 PM Brielle: lets use that
9:16:57 PM Shannon: **possible carcenogens**
9:17:09 PM Annie Chien: msuhrooms?
9:17:30 PM Annie Chien: oh ok i see, but you need to explicitly explain that
9:17:46 PM Shannon: **in teh presentation they said tht bt corn has the same level of toxicity as mushrooms, which is only bad in large quantities**
9:17:51 PM Stepha: okay BT corn is a corn that contains BT which resists pests
9:18:30 PM Annie Chien: ok keep going
9:18:33 PM Stepha: allows the plant to be more efficient by growing it quicker and healthier
9:18:53 PM Brielle: It is resistant to the pesticides so it doesnt absorb the chemicals
9:18:55 PM Annie Chien: ok good
9:19:05 PM Annie Chien: brielle what is the con there
9:19:18 PM Brielle: ummm.....
9:19:21 PM Stepha: it cant reproduce?
9:19:33 PM Shannon: **SUPER BUGGS**
9:19:35 PM Brielle: the pests can evolve
9:19:46 PM Stepha: forget me
9:19:49 PM Shannon: **da da da da!**
9:19:57 PM Brielle: they can become tolerant of the pesticides
9:20:09 PM Annie Chien: ok good
9:20:33 PM Annie Chien: but the BT is already produced y the plants, so saying that the plants wont absorb them doesnt make any sense
9:20:53 PM Annie Chien: Describe a clone.
9:21:12 PM Shannon: **a gentic copy of an organism with teh EXACT same genotype**
9:21:16 PM Brielle: oo
9:21:17 PM Brielle: srry
9:21:25 PM Shannon: **the***
9:21:29 PM Brielle: same dna minus introns
9:21:34 PM Annie Chien: good
9:21:46 PM Stepha: same phenotype too
9:21:46 PM Annie Chien: Describe two examples of using clone technology to benefit animals and plants
9:22:08 PM Brielle: cloning in plants can produce the ideal traits in food sources
9:22:19 PM Annie Chien: for example
9:23:05 PM Brielle: like being healthier for consumption
9:23:06 PM Shannon: **you clone one healthy plant enough times to make an entire crop of them, so you can feed more people**
9:23:19 PM Annie Chien: good
9:23:23 PM Annie Chien: whats the con to that
9:23:43 PM Shannon: **cross breeding could lead to unfavourable mutations**
9:23:53 PM Annie Chien: cross breeding with.....
9:24:02 PM Brielle: pollen from other plants
9:24:06 PM Annie Chien: gotta be specific and offer specific examples!
9:24:17 PM Stepha: like BT rice
9:24:22 PM Shannon: **its offspring**
9:24:23 PM Stepha: i mean golden rice

9:24:26 PM Brielle: because the insects could carry pollen from different plant to that plant
9:24:41 PM Brielle: and the offspring could be altered
9:24:53 PM Annie Chien: so it would mate with a non-recombinant plant you mean
9:24:57 PM Brielle: yes
9:24:58 PM Annie Chien: one that is not genetically altered.
9:25:07 PM Brielle: yes
9:25:11 PM Annie Chien: say that!
9:25:20 PM Brielle: well i didnt know how to word it
9:25:28 PM Annie Chien: Outline a technique for cloning using differentiated animal cells.
9:25:28 PM Brielle: srry i'll remember that now
9:25:47 PM Annie Chien: remember it
9:25:54 PM Brielle: hey this is the zona pellucida thing!!
9:26:04 PM Brielle: h.o. i'm thinking
9:26:12 PM Annie Chien: you dont remember anything else, but you remember zona pellucida
9:26:17 PM Brielle: lol
9:26:23 PM Shannon: **rmove the nucleus of the surrogate mothers sex cell and replace it with the nucleus of any diploid cell of the organism to be cloned**
9:26:26 PM Brielle: if anyone else knows be my guesy
9:26:30 PM Brielle: guest*
9:26:34 PM Annie Chien: Shannon good
9:26:40 PM Annie Chien: what is another method
9:26:44 PM Annie Chien: HINT* twins
9:26:58 PM Brielle: why did it seems so much more complicated yesterday?
9:27:16 PM Annie Chien: because i make it that way
9:27:20 PM Brielle: lol
9:27:22 PM Brielle: ok
9:27:57 PM Shannon: **let a cell divide, remove the zona pellucida, let divide insert genereated zp and let go on like in nature**
9:28:06 PM Annie Chien: shannon excellent!
9:28:24 PM Brielle: nice
9:28:35 PM Brielle: srry i was doing something else
9:28:41 PM Annie Chien:
How does gel electrophoresis work?
9:28:55 PM Stepha: an electric current is passed through a gel
9:28:57 PM Annie Chien: why does everyone remember nothing but the zona pellucida
9:29:03 PM Brielle: i remember
9:29:17 PM Brielle: the dna is separated by size
9:29:18 PM Stepha: going from negative to positive
9:29:29 PM Brielle: dna is negatively charged
9:29:34 PM Annie Chien: ok good so
9:29:37 PM Annie Chien: explain it
9:29:53 PM Stepha: the dna gets seperated by size moving through the gel with electrical pulses
9:30:00 PM Brielle: and the heavier ones move more slowly and the smaller moves faster
9:30:01 PM Annie Chien: electrical FIELD
9:30:08 PM Annie Chien: brielle - so what?
9:30:13 PM Annie Chien: how does that affect the gel?

9:30:16 PM Stepha: smaller pieces move faster "fatter" ones get left behind --- swimmers
9:30:23 PM Stepha: shows the size of the dna
9:30:28 PM Annie Chien: ok dont say that on the test but yes
9:30:31 PM Brielle: lol
9:30:41 PM Annie Chien: what is the role of markers on a gel?
9:31:00 PM Shannon: **to give a comaprison like a control in an experiment**
9:31:13 PM Annie Chien: shannon good but what IS it?
9:31:40 PM Annie Chien: hello?
9:31:40 PM Shannon: **so you know what allel you are looking at and know if it the same in other pieces of DNA**
9:31:47 PM Brielle: they can be used to match family members or samples in crimes
9:31:47 PM Shannon: **allele**
9:31:52 PM Annie Chien: what IS a marker????
9:32:08 PM Stepha: a marker is a line on the paper
9:32:15 PM Stepha: lol
9:32:22 PM Brielle: something that comes in many colors and is used to draw pictures
9:32:23 PM Brielle: lol
9:32:24 PM Brielle: jk
9:32:28 PM Stepha: a band thing
9:32:37 PM Annie Chien: marker = known sizes of DNA in a gel that acts as a ruler for DNA analysis
9:32:45 PM Shannon: **a band of test DNA that hasn't been seperated?**
9:32:59 PM Annie Chien: marker? shannon no
9:33:17 PM Annie Chien: marker = known sizes of DNA in a gel that acts as a ruler for DNA analysis
9:33:30 PM Brielle: i was gonna say that but differently
9:33:36 PM Brielle: i'm a slow typer
9:33:37 PM Brielle: lol
9:34:01 PM Annie Chien:
Explain roles of the different ingredients used in PCR.
9:34:22 PM Brielle: dna polymerase reads the dna
9:34:37 PM Annie Chien: for what reason
9:34:41 PM Shannon: **polymerase reads the strands, nucleotides rebuild teh dna, primers point out the starting point ansd ;igase puts it back together**
9:35:04 PM Stepha: agree with shannon
9:35:05 PM Shannon: **and ligase puts the new strands together***
9:35:14 PM Annie Chien: shannon GOOOOOOOOOOOOOOOOOD
9:35:21 PM Annie Chien: it feels good to have another stepha
9:35:26 PM Stepha: wow
9:35:27 PM Annie Chien: finally, someone beating stepha
9:35:39 PM Shannon: **it feels ggod to be confident about the test**
9:35:39 PM Stepha: i cant type fast and im doing history
9:35:40 PM Annie Chien: :-D
9:35:41 PM Brielle: i didnt even get to answer your other question
9:35:45 PM Brielle: i got cut of
9:35:49 PM Stepha: lol
9:35:51 PM Brielle: off*
9:35:53 PM Shannon: **sorry**
9:35:54 PM Annie Chien: excuses excuses

9:36:02 PM Brielle: you said for what reason?
9:36:14 PM Stepha: just get it shannon --- your a beast and this is your first review
9:36:17 PM Stepha: you own me
9:36:19 PM Stepha: lol
9:36:21 PM Annie Chien: lol
9:36:23 PM Brielle: i was gonna explain but shannon answered and you said "GOOOOOOOD"
9:36:29 PM Brielle: but whatevz
9:36:30 PM Annie Chien: type faster
9:36:32 PM Brielle: next
9:36:34 PM Shannon: **wat can i say i type fast**
9:36:43 PM Brielle: it doesnt matter
9:36:49 PM Stepha: and talk fast ---yor just a fast person
9:36:49 PM Brielle: we did this yesterday
9:36:52 PM Annie Chien: What is the role of gel electrophoresis in DNA technology? Offer several examples, both in animal and plant applications.
9:37:25 PM Brielle: match dna in cases and paternity for humans
9:37:35 PM Shannon: **to compare alleles their locations to show relationships like in paternity and crimanal cases and how plant families evolved**
9:37:45 PM Annie Chien: shannon - yes, very specific!
9:38:00 PM Annie Chien: shannon i would give you 2 marks for that
9:38:02 PM Annie Chien: brielle 1 mark
9:38:22 PM Shannon: **how many marks is it worth?**
9:38:29 PM Brielle: i wasnt finished but whatevz
9:38:30 PM Brielle: lol
9:38:30 PM Annie Chien: http://icanhascheezburger.files.wordpress.com/2009/10/funny-pictures-cat-is-not-wearing-pants.jpg
9:38:39 PM Brielle: idc about cats ms chien
9:38:43 PM Annie Chien: let's say 5
9:39:35 PM Shannon: **how plant families are related**
9:39:50 PM Shannon: **hi**
9:39:55 PM Annie Chien: hi melissa!
9:40:04 PM Melissa : i dont even know how i got in here
9:40:12 PM Annie Chien: shannon well you said that you might want to go into detail on how gel electrophoress works
9:40:13 PM Shannon: **lol**
9:40:13 PM Brielle: wow
9:40:15 PM Brielle: loser
9:40:18 PM Shannon: **k**
9:40:24 PM Annie Chien: http://icanhascheezburger.files.wordpress.com/2009/10/funny-pictures-cat-wants-less-love.jpg
9:40:53 PM Annie Chien: How does PCR work?
9:40:54 PM Brielle: next
9:41:06 PM Brielle: i thought we did this
9:41:17 PM Melissa M: it increases temp to seperate dna n then cools down to re connect them
9:41:24 PM Annie Chien: melissa - YES!!!!!!!!!!!!!!!!!
9:41:40 PM Brielle: nice
9:41:51 PM Shannon: **doesnt t heat up a little again?**

9:41:54 PM Shannon: **it8**
9:41:58 PM Annie Chien: what is another word for gluding 2 strands together
9:41:58 PM Shannon: **it****
9:41:59 PM Annie Chien: yes
9:42:19 PM Shannon: **y does it heat up again**
9:42:30 PM Annie Chien: why would it heat up again, just a little?
9:42:56 PM Shannon: **finish teh rejoinij process?**
9:43:05 PM Shannon: **rejoining***
9:43:30 PM Annie Chien: wouldnt they decrease the temperature for that?
9:43:35 PM Annie Chien: hmmm
9:43:39 PM Annie Chien: hint: enzymes
9:44:01 PM Brielle: denature them to stop the reaction?
9:44:21 PM Annie Chien: no, increasing the temp slightly is part of the pcr process
9:44:26 PM Brielle: oo
9:44:30 PM Brielle: nvm
9:44:42 PM Annie Chien: oh brother
9:44:45 PM Annie Chien: ANYONE ANYONE
9:44:58 PM Annie Chien: so you increase the temperature to separate the strands
9:45:05 PM Annie Chien: and you decrease it
9:45:12 PM Annie Chien: and then increas it JUST A LITTLE why?
9:45:24 PM Shannon: **to bring in the nucleotides**
9:45:38 PM Annie Chien: shannon yes
9:45:48 PM Annie Chien: and which molecule that is involved need a little temp kick to work?
9:46:08 PM Shannon: **ligase**
9:46:11 PM Annie Chien: yes
9:46:14 PM Annie Chien: what else?????
9:46:17 PM Annie Chien: there another!!!
9:46:25 PM Annie Chien: HINT ENZYMESSSSSSSSSSSSSSSSSSSSSSSSSS
9:46:27 PM Shannon: **primers or polymerase**
9:46:33 PM Shannon: **polymerase**
9:46:36 PM Annie Chien: shannon which one
9:46:48 PM Shannon: **polymerase**
9:46:50 PM Annie Chien: shannon yes!
9:46:52 PM Annie Chien: good job!
9:47:01 PM Annie Chien: Describe basic technique used for gene transfer.
9:47:36 PM Brielle: taking out the dna in a virus and putting the desired dna into the virus to use it as a vector
9:47:46 PM Brielle: so when the virus is implanted
9:47:55 PM Annie Chien: into where
9:48:03 PM Shannon: **or removing the ti plasmid in a bacteria and replacing it with teh gene of interest**
9:48:05 PM Brielle: it transfers the dna into the oranism
9:48:09 PM Brielle: into the organism
9:48:14 PM Annie Chien: shannon good
9:48:16 PM Annie Chien: brielle good
9:48:22 PM Brielle: ya!!
9:48:28 PM Annie Chien: what are the pros and const to this?

9:48:32 PM Brielle: finally i'm right
9:48:42 PM Annie Chien: youve been right but I need more specifics
9:49:20 PM Annie Chien: what are the pros and const to this?
9:49:21 PM Brielle: pros of virus vector = that the dna is transferred to all of the cells in the organism
9:49:43 PM Annie Chien: ok
9:49:47 PM Stepha: bacteria cant hold a big gene
9:49:49 PM Stepha: right?
9:49:51 PM Shannon: **con possible mutations**
9:49:59 PM Annie Chien: stepha yes its limited
9:50:07 PM Stepha: yay
9:50:08 PM Annie Chien: shannon good - but SPECIFICSSSSSSSSSSSSSSSSSSSS
9:50:36 PM Shannon: **the virus could become dangerous again**
9:50:41 PM Annie Chien: shannon good
9:50:49 PM Annie Chien: mutations? explain
9:51:12 PM Brielle: can it become a different type of virus that our body isnt prepared for?
9:51:17 PM Brielle: is that possible?
9:51:18 PM Annie Chien: yes shannon said taht
9:51:29 PM Shannon: **the dna would change to attaqck, damage the host cell youo were tryingto improve**
9:51:34 PM Brielle: no she said it can become dangerous
9:51:38 PM Brielle: thats different
9:51:53 PM Annie Chien: hence, a different type of virus our body isnt prepared for
9:52:01 PM Annie Chien: how can it mutate our cells?
9:52:40 PM Annie Chien: how can it mutate our cells?
9:53:13 PM Shannon: **i meant it would mutate not mutate our cells, can it/**
9:53:18 PM Shannon: **?***
9:53:20 PM Annie Chien: yes
9:53:44 PM Annie Chien: Remember that genes "talk to each other" to express the right protein
9:53:50 PM Brielle: o
9:54:02 PM Brielle: and if it communicates the wrong protein
9:54:14 PM Brielle: it produces the wrong function
9:54:17 PM Brielle: wow
9:55:15 PM Annie Chien: yep
9:55:21 PM Brielle: ok
9:55:21 PM Shannon: **nice**
9:55:24 PM Brielle: thanx
9:55:26 PM Brielle: next
9:56:21 PM Annie Chien: how can i slow down the pcr process>
9:56:40 PM Brielle: decrease the temp?
9:56:46 PM Annie Chien: ok good
9:56:48 PM Brielle: inhibitors
9:56:52 PM Annie Chien: like?
9:57:08 PM Brielle: add more dna?
9:57:09 PM Brielle: lol
9:57:28 PM Annie Chien: read the question!!!!!!!!!!

9:57:52 PM Brielle: i did
9:58:00 PM Brielle: i was joking
9:58:02 PM Annie Chien: why would adding more DNA slow down the reaction?
9:58:10 PM Stepha: use smaller amount of DNA
9:58:17 PM Stepha: so it would have to copy more
9:58:26 PM Annie Chien: SLOW DOWN pcr
9:58:41 PM Annie Chien: stepha, go further
9:58:48 PM Brielle: do it by hand
9:58:49 PM Brielle: lol
9:58:49 PM Annie Chien: think about what is required to do the copying
9:58:59 PM Stepha: primers nucleotides
9:59:05 PM Brielle: dna polymerase
9:59:06 PM Annie Chien: what about them
9:59:13 PM Annie Chien: how can they slow down the processs
9:59:29 PM Shannon: **oo many enzymes means to many workers with not enough work soit will go slower**
9:59:32 PM Shannon: **too***
9:59:45 PM Annie Chien: what?
9:59:55 PM Annie Chien: ok explain that in detail
9:59:56 PM Shannon: **to make up the difference and go to equalibrium**
10:00:30 PM Annie Chien: explain that in detail using the roight vocab!
10:01:07 PM Annie Chien: in order to slow down PCR, you would
_____....
10:02:09 PM Stepha: decrease the number of enymes
10:02:14 PM Shannon: **i have to go my dad wants to go to bed, post this on the site please**
10:02:18 PM Annie Chien: stepha goooooood
10:02:19 PM Brielle: ok
10:02:20 PM Annie Chien: ok
10:02:24 PM Stepha: bye shannon
10:02:27 PM Annie Chien: GOOOD stepha
10:02:27 PM Brielle: deucez
10:02:27 PM Shannon: **bye**
10:02:29 PM Stepha: your a beast
10:02:30 PM Annie Chien: bybye shannon
10:02:34 PM Annie Chien: okay i have to go
10:02:35 PM Annie Chien: its 10
10:02:38 PM Brielle: no!!!
10:02:40 PM Annie Chien: time to shower and sleep
10:02:43 PM Brielle: come on
10:02:45 PM Brielle: one more
10:02:46 PM Stepha: sad face
10:02:49 PM Brielle: :-(
10:03:07 PM Brielle: :'(
10:03:13 PM Stepha: :'(
10:03:14 PM Annie Chien: ok see you guys Monday
10:03:16 PM Annie Chien: good luck!
10:03:19 PM Stepha: :'(

10:03:23 PM Brielle: fine
10:03:28 PM Stepha: :'(
10:03:28 PM Brielle: just leave us
10:03:33 PM Stepha: im really crying
10:03:33 PM Annie Chien: i have to make the chat script now!
10:03:38 PM Brielle: meanie