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May 2020

LabChemistry_IS2_20160330_Camera2_Seg03.pdf

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Participants: IS2 (individual with microphone), S1 (male assistant with black shirt), S2 (female with black shirt), S3 (female, black hair), S4 (female, black headscarf), S5 (female, short black hair), S6 (male, short black hair), S7 (ambiguous voice, not visible), S8 (female voice, not visible), S9 (female, short black hair), S10 (female voice, not visible), S11 (male voice, not visible), S12 (male voice, not visible), S13 (male voice, not visible), S14 (female voice, not visible), S15 (female voice, not visible), S16 (female voice, not visible), S17 (female voice, not visible), S18 (female, black hair), S19 (tall female in back of the room)

Setting: Chemistry lab-IS2 assisting students (S3-IS21) in their experiments; camera restricted to one corner of lab, mic feed occasionally cuts out as indicated by ((unclear))

0:00

xxx S3: is it OK?
xxx IS2: I think so
xxx S3: OK
xxx IS2: yea it's good
xxx S3: (ok good)
xxx IS2: so uh
xxx S3: so we just have to prepare water and then=
INR IS2: =um
INR prepare water
INR and then (step up)
INR ((unclear)) the separation funnel
xxx S3: oh:
xxx OK
INR IS2: [separate uh:
INR separatory funnel
xxx S3: [OK
xxx IS2: and uh:
xxx clean
xxx uh:
xxx clean a vile
xxx for the (next week)
xxx did you do this?
xxx S3: yea
xxx I cleaned the vial and I-
xxx IS2: OK
xxx S3: and then I ((unclear))
xxx IS2: yea
xxx (pressure) water
xxx OK
xxx S3: thanks
xxx S4: I have a question
xxx are we just (putting this) directly in (here)

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CLF IS2: yes
CLF and you need
CLF uh:
CLF clamp to fix the
CLF to fix the ((unclear))
xxx S4: (I am) ((unclear))
xxx IS2: ((watches S4 fix her station))
xxx so basically
xxx uh no
xxx so
CLF you just fix this first on the :
CLF here,
xxx ((continues assisting S4)) yup
xxx ((continues watching))
xxx it's good?
xxx S4: um:
xxx IS2: uh:
xxx l-lemme
xxx lemme help you
xxx ((unclear))
xxx ((unclear))
xxx S4: ((unclear))
CLF IS2: uh
CLF you need to press here
xxx S4: here?
xxx oh
xxx S1: honestly
xxx I think it's OK
xxx ((unclear))
xxx as long as your water ((unclear))
xxx S4: I'm just gonna lower the ((unclear))=
xxx IS2: =yea
xxx OK you got it
xxx S4: (yea yea yea)
xxx IS2: ((walks over to another student))
xxx how long
xxx uh
xxx is it boiling?
3:00
xxx S5: um:
xxx ten minutes,
xxx IS2: ten minutes?=
xxx S5: =fifteen minutes
xxx IS2: oh fif-fifteen minutes already
xxx S5: fifteen
xxx yea
xxx IS2: OK
xxx are you prepa-
xxx the water,

xxx S5: [water yea
xxx IS2: and you can set up the funnel,
xxx and then also clean a vial,
xxx S5: ((nods)) yea
xxx IS2: OK ((walks away))
xxx S6: ((unclear)) (is it supposed to be like that)
xxx IS2: yea
xxx it's good
xxx S6: it's good,
xxx IS2: yea uh
xxx fif-fifty is OK
xxx S6: alright
xxx IS2: and uh:
xxx wait
xxx uh:
xxx (set up the) funnel=
xxx S6: =yea
xxx IS2: and the:
xxx clean a vial=
xxx S6: ((nods)) =yea I will
xxx IS2: and then
xxx uh:
xxx prepare a cold water,=
xxx S6: =uh-huh
xxx IS2: OK
xxx S6: alright
xxx IS2: do right now?
xxx S6: yea
xxx IS2: ((walks away))
xxx ((3:40-4:24 no dialogue))
xxx S7: (it's been about seven minutes)
xxx IS2: only seven minutes.
xxx OK.
xxx S8: uh I have a ((unclear))
xxx >oh sorry<
xxx keep going
xxx S7: do you have extra of the-
xxx um-
xxx parts that you connect to this?
xxx IS2: you don't have one (already)?
xxx S7: they're ((unclear))-
xxx IS2: I don't think so.
xxx S7: they're um-
xxx IS2: so lemme check.
xxx S7: (maybe the TAs tell me to like
xxx get one from another ((unclear))
xxx IS2: ((unclear)) you can (borrow from) other people.
xxx S8: but uh:
xxx (the parts that you need)

xxx I have a question
xxx IS2: yea
xxx S8: is ether
xxx um
xxx volatile?
xxx or ((unclear))
xxx IS2: ((unclear))
xxx S8: it is,
xxx IS2: yea
xxx ((unclear)) is
xxx S8: I didn't know if I could-
xxx IS2: so
xxx when you do load-up
xxx uh:
xxx do the load-up on the room temperature
xxx you don't need to increase the (water bath)
xxx S8: [OK
xxx IS2: [temperature?
xxx S8: no
xxx for um
xxx I was just trying ((unclear)) uh ((unclear))
xxx and ((unclear)) gonna need 20 milliliters of ether,
xxx I didn't know if I can measure it now
xxx or should I just wait.
xxx IS2: what?
xxx twenty?
xxx no.
xxx twenty mL water.
xxx not ether.
xxx ((pause))
xxx OK
xxx so
xxx you don't need to (wait) right now,=
xxx S8: =OK
xxx IS2: so
xxx when you do this step,
xxx S8: ((unclear))
xxx IS2: OK
xxx S8: OK
xxx thank you
xxx IS2: OK
xxx uh:
xxx did you clean out (.) vial
xxx S8: not yet
xxx IS2: not-
xxx that's why
xxx so
xxx use another one for next week.
xxx for the next week.=

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xxx S8: =oh OK
xxx IS2: this
xxx you need to return this to the (stock [room] probably
xxx S8: [this one,
xxx IS2: I don't think so.
xxx just after (you) finish this.=
xxx S8: =OK
xxx IS2: OK
xxx S8: just gotta clean this out=
xxx IS2: =yea yea yea yea
xxx S9: is this supposed to be looking like that?
xxx IS2: yea
6:00
xxx ((chuckles)) this is from the boiling stone
CLF it doesn't matter.
CLF OK
CLF just turn around.
CLF t-t-the color doesn't influence your-
CLF uh
CLF reaction.=
xxx S9: =OK
CLF IS2: so
CLF it's-
CLF it's-
CLF it doesn't matter.
xxx turn (it) around OK?
xxx S9: OK
xxx IS2: yea
xxx this is-
xxx uh
xxx another guy have the same problem (as) you
xxx but it doesn't matter.
xxx this is because the boiling stone right?
xxx S9: oh
xxx OK=
xxx IS2: =yea
xxx right
xxx S1: sorry what,
xxx IS2: this is the-
xxx this is because (of) the boiling stone
xxx right?
xxx ((chuckles))
xxx S1: wait why is-
xxx yea yea
xxx I think it's-
xxx I think it's just (because of the boiling stone).
xxx S9: ((nods)) OK
xxx IS2: yea yea
xxx doesn't matter

xxx because ((points at S2))
xxx because t-the uh
xxx ((stammers)) that TA uh
xxx I don't know
xxx ((turns to S1)) uh
xxx what's the name of that student?=
xxx S1: =((unclear))
xxx IS2: ((repeats name))
xxx right
xxx S1: yea yea yea
xxx S2: ((walks over to IS2)) what I do
xxx IS2: this is from boiling stone
xxx right
xxx S1: this isn't the one
xxx this isn't ((unclear))-
xxx S2: oh whoa
xxx this is-
xxx oh no
xxx that's how mine was.
xxx IS2: this is how ((unclear)) your was=
xxx S2: =it's gonna spread
xxx OK
xxx a lot of people have it.=
xxx IS2: =oh
xxx S2: like
xxx ((points in one direction)) there's people whose is orange
xxx ((points in another direction)) her's is like a light red,
xxx so a lot of [people have it
xxx S1: [mine was a light red actually.=
xxx IS2: =because-
xxx because the boiling stone is not clean?
xxx S2: I- I think.
xxx that's the only-
xxx that's the only reason I could think of
xxx when I did the lab.=
xxx IS2: =OK
xxx just turn around.
xxx uh
xxx I just-
xxx S2: just let it.
xxx it should be spreading.
xxx is your's not spreading?
xxx no
xxx IS2: (it's just not boiling right).
xxx S1: it's not boiling right=
xxx S2: =yea so ((unclear))
xxx cause it should spread as soon as it
xxx like
xxx happens.

xxx S1: I've never seen this before.
xxx S2: really!=
xxx S1: =yea
xxx S2: I've seen it so many times.
xxx S1: really?
xxx IS2: ((laughs))
xxx ((unclear)) I haven't-
xxx so last semester ((unclear)) I haven't seen this
xxx before.
xxx S2: even last semester=
xxx S1: =yea
xxx me neither.
xxx last semester I never saw this.
xxx IS2: it's weird for the boiling stone.
xxx S2: oh no
xxx it's
xxx it's
xxx see the colors,
xxx it's spreading
xxx S9: yea
xxx S2: it's fine
xxx like
xxx I have no other explanation other than the boiling
xxx stone
TRP IS2: it's not (.) because of the boiling stone,
xxx S2: I think it is because of the boiling stone=
xxx IS2: =yea
xxx S9: oh: OK
xxx IS2: it's
xxx it's fine
xxx so as long as you add the right uh acid and the right
xxx (alcohol)=
xxx S9: =yea
xxx IS2: so after it is boiling,
xxx I think i-it will spread.=
xxx S9: =OK
xxx IS2: just wait.
xxx S2: yea it's spreading.
xxx see?
xxx it's turning purple now.
xxx S9: is it,
xxx the ester's not supposed to be colored though.
xxx right?
xxx S2: what?
xxx S1: it's not.
xxx S9: the ester is clear=
xxx IS2: =no no no no no
xxx S2: ester is clear.
xxx eventually once you do all the extractions and

xxx everything,
xxx S9: ((nods))
xxx S2: it'll be like,
xxx clear.
xxx S1: j-just leave it boiling.=
xxx S2: =yea
xxx just keep continuing for now.=
xxx S9: =OK
xxx thank you
xxx IS2: ((walks away to another student))
xxx what happened?
xxx S10: oh
xxx I'm just moving it.
xxx cause like
xxx the bottle ((unclear)) wasn't reaching,=
xxx IS2: =OK
xxx ((walks away))
xxx ((tired sigh))
xxx ((turns around and walks over to a different student))
xxx oh
xxx it is boil
xxx right?
xxx you change another one or? ((unclear))
xxx S11: ((unclear)) it was just that ((unclear))
xxx no
xxx I think it was this.
xxx IS2: oh
xxx S11: (cause) it wasn't plugged in.
xxx fully.
xxx you know what I mean?=
xxx =yea
xxx IS2: OK
xxx S11: thank you
9:00
xxx S12: ((unclear))=
xxx IS2: =I don't think so
xxx S12: do we have a different vial
xxx IS2: ((unclear)) uh
xxx you can get from the
xxx bottom ((unclear))
xxx it's a weird (.) smell
xxx right?
xxx S7: hm
xxx IS2: do you smell something?
xxx S7: I don't know what it is
xxx but yea.
xxx I smell it.
xxx S13: ((unclear)) ((unclear))
xxx IS2: you can get some ((unclear))

xxx S13: more, ((unclear))
xxx ((no dialogue until 10:32))
xxx S14: mine doesn't work .
xxx the mantle.
xxx it's not heating up.
COM IS2: you can change another one.
COM you should have two right?
COM don't use b- ((unclear))
COM it's on right,
COM or ((unclear)) just wait.
xxx S14: huh
xxx IS2: ((unclear))
xxx S14: uh:
xxx like approximately five minutes?
CLF IS2: ((alarmed)) eighty-five minutes,
xxx S14: ((enunciating)) five minutes.
CLF IS2: OK
CLF five minutes.
xxx S14: fi:ve.
xxx IS2: it-
xxx five minutes is not enough.
xxx OK,
xxx so you can-
xxx S14: yea but I like see other peoples' ((unclear)) in like
xxx five minutes and [it's boiling
xxx IS2: [I don't think so
xxx S14: mine is not heating up at all.
xxx I know I'm (not supposed to do that)-
xxx IS2: it's not ((unclear)) (tightly packed) ((unclear))
xxx you need to ((unclear))-
xxx that's the reason.
xxx OK?
xxx everything has some-
xxx you know ((unclear))
xxx ((11:23-11:49 feed keeps cutting out; difficult to
xxx understand))
xxx IS2: so if-
xxx if-
xxx if it doesn't work,
xxx (change) another one, ((unclear))
xxx S14: what if it doesn't boil in five minutes.
xxx ten minutes.
xxx IS2: (then increase to high value)
12:00
xxx ((12:10-12:48 no dialogue))
xxx IS2: did you smell some=
xxx S2: =burning,
xxx yea
xxx (cause) her water wasn't on.

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xxx S1: her water wasn't on so she-
CLF IS2: the water,
CLF is not water.
xxx S2: no no no
xxx her water wasn't on so that's why it was burning.
xxx IS2: oh!
xxx S2: then we turned the water on.
xxx so it's good now.
xxx IS2: ((unclear))
xxx S2: yea yea
xxx IS2: the ((unclear))
xxx S2: yea yea
xxx IS2: it's a strong smell
xxx you know?
xxx S2: it is strong.
xxx S1: maybe that's why-
xxx maybe that's why she uh-
xxx ((unclear))
xxx S2: no
xxx I don't think 'cause of her ((laughs))
xxx IS2: ((laughs))
xxx S2: how do you burn a (stick) of fabric!
xxx S1: (looks like grape juice).
xxx S2: it does look like (grape juice)
xxx ((unclear))
xxx IS2: ((sigh))
15:00
xxx ((13:31-16:05 no dialogue))
xxx S15: (I put it out on the rack)
xxx IS2: no no no
xxx uh yea.
xxx S15: yea
xxx it's down
xxx right
xxx oh
xxx I need (the) water
xxx it's just in there=
xxx IS2: =it's too ((unclear))
xxx change it (to low one),
xxx S15: ((inaudible))
xxx IS2: yea
xxx I think so.
xxx so if-
xxx if- if((unclear)) all the things down,
xxx it should be good.
xxx OK?
xxx ((unclear))
xxx S15: ((unclear))
xxx but this is correct.

xxx right?=
xxx IS2: =yea
xxx it's right.
xxx so it goes-
xxx uh-
xxx it goes in at the bottom and goes out on the top.
xxx ((unclear))
xxx uh
xxx S15: I think it's OK.
xxx IS2: ((unclear)) OK
xxx OK
xxx S16: (put) more water?
xxx IS2: no
xxx not too-
xxx more.
xxx a little bit is fine.
xxx S16: ((pours water)) this good?
xxx IS2: yea
xxx it's too much.
xxx S16: (oh it's too much)
xxx IS2: OK
xxx just keep an eye here,=
xxx S16: =yea
xxx I will
xxx IS2: because it will spill out OK?=
xxx S16: =yea yea
xxx and then
xxx the-
xxx IS2: yea
xxx just a ((unclear))
xxx and the (seventy) is fine,
xxx and after (eighty) is reflux,
xxx you can uh-
xxx S16: lower it=
xxx IS2: =lower it at
xxx uh:
xxx fifty?
xxx S16: OK
xxx IS2: OK
xxx S16: thank you ((unclear))
xxx IS2: ((unclear)) if you do the reflux
18:00
xxx ((17:57-18:18 IS2 conversing with student but mic feed
xxx constantly cuts out))
xxx maybe here
xxx maybe you can attach a clamp here?
xxx this is fine too,
xxx OK
xxx S16: cause that's what I did for-

xxx like he's
xxx he's saying that I shouldn't have propped it up.=
xxx S2: =why!
xxx I was telling people to prop it up=
xxx S16: =because
xxx when you ((unclear))
xxx S2: no
xxx and then you just clamp this
xxx IS2: oh
xxx and you clamp those too
xxx S2: yea
xxx you clamp the RbF.
xxx IS2: but
xxx yea
xxx S2: just clamp the RbF too
xxx you're good=
xxx IS2: =normally
xxx so
xxx they have not to ((stammers))
xxx some people don't have ((unclear)) long=
xxx S2: =oh:
xxx oh
xxx you don't have a long thingy.
xxx oh ((unclear))
xxx ((18:49-20:01 IS2 conversing with student(s) but mic
xxx feed constantly cuts out))
xxx IS2: so
xxx basically:,
xxx the water comes in at the bottom,=
xxx S4: =yea-
xxx IS2: comes out (.) at the top
xxx but
xxx you have the opposite way=
xxx S4: =oh no
xxx IS2: so switch this.
xxx S4: so
xxx how do I-
xxx IS2: so
xxx basically
xxx you need to attach here to here
xxx and the (water) comes out from here.=
xxx S4: =oh
xxx IS2: do you know what I mean?
xxx so you just (take) it out,
xxx and attach the side to here,-
xxx S4: so I should turn the water off=
xxx IS2: =and then get this out.
xxx and attach here to here.
xxx S4: a-am I turning it off this way or the other way?

xxx IS2: ((turns knob))
xxx S5: oh:
xxx that's why
xxx IS2: ((turns around to see speaker))
xxx S5: oh:
xxx IS2: OK
xxx just take that out
xxx so (you can just get out).
xxx get (the condenser) out
xxx because the water- if you take it out directly,
xxx the water will spill out in y-
xxx ((stammers)) in your (hidden) mantle.
xxx S4: oh
xxx IS2: so
xxx basically
xxx what I suggest you is get the condense-
xxx uh it's good.
xxx S4: oh
xxx it's OK,
xxx IS2: OK
xxx just-
xxx uh-
xxx get the condenser out first.
xxx and uh switch the (tubes).
21:00
xxx S4: OK
xxx S5: is it supposed to change color?
xxx IS2: yea
xxx because uh-
xxx S5: the reaction
xxx IS2: the reason-
xxx because is not because the reaction.
xxx is because of the boiling stone.
xxx boiling stone has some kind of color,
xxx it cause the solution change color.
xxx so it doesn't matter.
xxx yea
xxx some people got kind of issue,
xxx like
xxx color change,
xxx but uh
xxx your ester doesn't have any color.
xxx it is colorless.=
xxx S5: =yea
xxx IS2: yea
xxx so
xxx but it doesn't matter.=
xxx S5: =OK
xxx IS2: it will not (influence) the ((unclear)) and the

xxx purity
xxx because you need to do extraction,
xxx and you
xxx next to it you need to do the- do a (styrenation),
xxx so
xxx it should be (very) pure.
xxx S5: ((nods)) thank you
xxx IS2: ((continues walking))
xxx ((mumbles))
xxx S6: should it be changing colors,
xxx IS2: it should-
xxx it is not supposed to change colors.
xxx so
xxx but
xxx it doesn't matter because some people have some-
xxx this kind of problems.
xxx just because of the boiling stone.
xxx it's not because the reaction.=
xxx S6: =oh OK
xxx IS2: so
xxx you don't need to care about that.
xxx S6: alright
xxx ((walks away))
xxx S17: ((inaudible))
xxx IS2: so,
xxx S17: ((inaudible))
xxx IS2: if this is for-
xxx uh uh the-
xxx so
xxx one is for the organic one is ((unclear))
xxx right?=
xxx S17: =yea
xxx IS2: so for organic-
xxx yea
xxx you don't need to wash it.
xxx because you introduce some water
xxx right,=
xxx S17: =yea
xxx IS2: this not good for organic (layer).
xxx OK
xxx so if you have a new one,
xxx a: dry one,
xxx use another one.
xxx ((keeps walking))
xxx S9: ((inaudible))
xxx IS2: ((laughs)) it's good!
xxx but (.) it's kinda weird.
xxx S9: right
xxx IS2: it's-

xxx yea
xxx but doesn't matter.
xxx ((laughs))
xxx S9: OK
xxx IS2: cause (you) need to do extraction and next week we
xxx need to do the (distillation)=
xxx S9: =mhm
xxx IS2: so after this two steps should be (.) pure.
xxx S9: ((nods)) OK.
xxx IS2: yup
xxx ((keeps walking))
24:00
xxx ((23:45-24:25 no dialogue))
xxx ((mic feed keeps cutting off))
xxx ((unclear)) thirty minutes
xxx ((unclear)) kay
xxx (it's) good
xxx ((unclear)) is there a (flask)
xxx S8: yea
xxx IS2: oh
xxx it's good.
xxx S17: for the chilled water
xxx can we just put it in a beaker
xxx IS2: uh
xxx a smaller beaker
xxx S17: ((unclear)) beaker in a beaker,
xxx IS2: beaker you can
xxx uh ((unclear)) ice
xxx and you put the small ((unclear)) into ((unclear))
xxx and
xxx (then)
xxx uh:
xxx yea ((unclear))
xxx ((25:05-25:26 no dialogue))
xxx S18: um
xxx I have a question.
xxx IS2: yea.
xxx S18: uh
xxx when I ((unclear)) into the separatory funnel,
xxx um
xxx the bottom layer,
xxx um
xxx I collected into a beaker
xxx right?
xxx and then the organic layer,
xxx like the topic layer I (.) collected into the
xxx Erlenmeyer flask?
xxx or do I just keep it in there for the next
xxx (extraction).

CLF IS2: so:
 CLF no,
 CLF so
 CLF yea
 CLF you got the ((unclear))
 CLF o-or for the first part is
 CLF y-you are two layers
 CLF right?=
 xxx S18: =mhm
 xxx IS2: so
 xxx after you- it is cooling down,=
 xxx S18: =mhm
 xxx IS2: and you pour into the pitcher of water inside the
 xxx funnel
 xxx right?=
 xxx S18: =mhm
 xxx IS2: and you shake,
 xxx and uh
 xxx open the: stopper,=
 xxx S18: =mhm
 xxx IS2: and you got two layers.
 xxx right?=
 xxx S18: =mhm
 xxx IS2: you got two ((unclear)) (in one)
 xxx so both of them g- uh
 xxx go to the: (.) (Erlen) flask ((unclear)) to flask
 xxx but doesn't matter.
 xxx you can use beaker,
 xxx you can use anything else,
 xxx just-
 xxx S18: oh:
 xxx they all
 xxx everything goes (in there)
 COM IS2: everything goes into-to-to-to
 COM uh
 COM flasks=
 xxx S18: =OK
 COM IS2: one is for the organic and one is for the-
 COM uh
 COM aqueous layer.
 COM and
 COM uh
 COM for the aqueous layer-
 COM leave it ((unclear)) by ((unclear))
 COM and for organic layer
 COM you need to add sodium carbonate to-
 xxx S18: ((nods))
 COM IS2: uh
 COM (benzene) ((unclear))

COM which removes the
COM uh:
COM acid
xxx S18: mhm
COM IS2: so then
COM after it is
COM after the a((unclear)) but the whole system is basically
COM transfer all the solution into the separatory funnel again
COM and do the extraction again
xxx S18: ((nods)) o((unclear))
xxx IS2: so basically you need to prepare two flasks.
xxx S18: two flasks
xxx IS2: one is for organic layer,
xxx and one aqueous layer,
27:00
xxx so flask is OK.
xxx and a beaker is OK too.
xxx but uh for the organic layer.
xxx I suggest you to use a
xxx a (Erlen) flask.
xxx S18: ((nods)) flask.
xxx alright
xxx IS2: ((turns away))
xxx ((27:07-27:35 no dialogue))
xxx S2: a lot of waiting in this lab.
TRP IS2: hm
xxx S2: a lot of waiting in this lab. ((laughs))
xxx IS2: yea yea
xxx ((laughs))
xxx this is the (.) last two experiment. ((unclear))
xxx right?=
xxx S2: =y:ea
xxx IS2: we have two sessions.
xxx so-
xxx S2: (and this is another thing)
xxx IS2: [(just just)
xxx S2: this is two parts
xxx so we do this next week too?
xxx IS2: uh
xxx we'll do the second part for this ((unclear)),
xxx S2: and then-
xxx IS2: (and then ((unclear)) day is two too).=
xxx S2: =yea
xxx yea
xxx and then the last day is make up day.
xxx and we have a lot of people making up.
xxx IS2: really?
xxx S2: like
xxx at least (three) ((trails off))

xxx ((laughs))
xxx ((indistinguishable))
xxx IS2: ((exasperated sigh))
xxx S4: ((asks IS2 for assistance)) ((inaudible))
xxx IS2: yea
xxx S4: ((inaudible))
xxx IS2: it is reflux.
xxx S4: (so like this)
xxx IS2: yea it's good.
xxx S4: OK
xxx IS2: don't let the (.) water-
xxx you know
xxx the flow rate too high,=
xxx S4: =OK
xxx IS2: so
xxx as long as the water can come out.=
xxx S4: =OK ((nods))
xxx IS2: so
xxx it is good.
xxx S4: OK
xxx IS2: so for the reflux
xxx it is OK
xxx it is reflux
xxx right?
xxx S4: yea
xxx IS2: ((looks closer at experiment)) you add boiling stone
xxx right?
xxx S4: ((nods)) mhm
xxx IS2: OK
xxx so:
xxx one hour reflux.=
xxx S4: =yea
xxx I have to wait till eleven.
xxx IS2: so right now you need to prepare-
xxx uh
xxx did you get the whole idea for today's experiment?
xxx S4: uh yea
xxx we're just um-
xxx separating it into the organic and the aqueous layer.
xxx right?
TRP IS2: so basically-
xxx after it is finish.
xxx right?
xxx y-y-you have the (pre-chill) water.
xxx and you poured it- the (pre-chill) water in your-
xxx oh sorry
xxx after it is good enough
xxx you transfer the- the solution into the (separation)
xxx funnel,

xxx S4: ((points at funnel)) right here.
xxx yea
xxx IS2: right here
xxx right,
xxx and also you p-
xxx you transfer that (pre-chill) water inside of funnel.
xxx two
xxx and you do the (.) shaking,
xxx and shake,
xxx and then you will see two layers.
xxx right?
xxx the top layer is organic layer,
xxx and the-
xxx S4: bottom layer is-
xxx IS2: bottom layer's aqueous layer.
xxx S4: ((nods))
xxx IS2: and the aq-
xxx so you need to prepare two flasks.
xxx S4: uh-huh
xxx IS2: one is for organic layer and one is for the orga-
xxx uh
xxx aqueous layer.=
xxx S4: =OK
xxx and for the aqueous layer you just (leave) it one way,
xxx and for the organic layer.
xxx because we use an axis of acids for this experiment.=
xxx S4: =uh-huh
xxx IS2: so
xxx after this
xxx so we still have a: unreactive acid in your solution.=
xxx S4: =uh-huh
30:00
xxx IS2: so next step is you need to remove the acid as much as
xxx possible.
xxx so the thing we need to do is we -
xxx after you got the organic layer,
xxx right?
xxx we add the: sodium carb-carbonate.
xxx S4: oh:
xxx IS2: so this is a base.
xxx OK?=
xxx S4: =OK
xxx IS2: and will react with the acid and remove the acid.
xxx S4: oh:
xxx IS2: and after-
xxx after
xxx uh:
xxx you add the
xxx uh:

xxx sodium carbonate
xxx and you just transfer all the solution into the funnel
xxx again.
xxx and do the extraction again.=
xxx S4: =OK
xxx IS2: and then you
xxx uh just collect the
xxx organic layer.=
xxx S4: =OK
xxx IS2: then do the (other lab).
xxx S4: ((nods)) yea OK.
xxx IS2: OK
xxx and the
xxx the ((unclear))
xxx just follow the manual
xxx OK
xxx S4: ((nods))
xxx IS2: yea
xxx S4: thank you
xxx S1:
xxx S2:
xxx IS2: ((turns around))
xxx S1: do you know where the printer is in this building?
xxx which for the printer's on?
TRP IS2: printers?
xxx S1: yea
TRP IS2: uh you mean
xxx uh::
xxx S1: in the chem building?
xxx S2: sixth floor?
xxx S1: is it sixth floor or?
xxx IS2: for the public?=
xxx S2: =yea
xxx IS2: I haven't used that.
xxx because I only use for my la- in my lab.=
xxx S2: =ah
xxx OK
xxx question
xxx so like
xxx ((turns around and points at student)) he was absent .
xxx for like-
xxx half the notebook quiz,
xxx does he still hand his in?
xxx S1: he was absent for two- two labs?
xxx S2: ((indistinguishable))
xxx he still hands it in
xxx right?
xxx he just has (absent).
xxx S1: yea he just as (absent).

xxx IS2: OK
xxx so you just double check with (Doc Chen) because
xxx yea
xxx for the notebook.
xxx S1: no
xxx that should be it.
xxx S2: that's it.
xxx IS2: ((turns around and observes the lab))
xxx ((approaches S9))
xxx is it good?
xxx S9: yea
xxx it's pretty good.
xxx it's OK.
xxx IS2: OK
xxx ((continues circling the lab))
xxx so
xxx they just w((unclear)) reaction
xxx so af-
xxx there's nothing else I can say to them because they just
xxx waiting
xxx S19: uh-huh
xxx IS2: yea yea
xxx S19: that's it for today?
TRP IS2: what?
xxx S19: that's it for today?
xxx IS2: yea.
xxx it's after-
xxx uh
xxx the-they finish (the) step,
xxx and they do ((unclear)).
xxx S19: OK
xxx IS2: yea
INT ((moves over to another student))
INT how's biology?
xxx S1: what happened?
xxx IS2: how's the biology class?
xxx S1: it's going.
xxx it's (.) whatever.
xxx you know
xxx it's just-
xxx IS2: which
xxx which biology class have you taken this semester
xxx S1: I'm taking-
xxx 201, 202, 203
xxx uh
xxx I took 04
xxx which is lab
xxx I'm taking 207 right now.
xxx the second semester of that=

33:00

xxx IS2: =so what are these (.) courses about
xxx is about
xxx S1: oh
xxx 201 is about
xxx um
xxx ecology bio
xxx which is like
xxx it's like introduction
xxx and 202 is molecular bio
xxx 203 is physiology bio
xxx IS2: oh you-
TRP you take- you are taking physiology.
TRP S1: no I
TRP IS2: is about (the) human
TRP right?
TRP S1: what happened?
TRP IS2: it's about human.=
xxx S1: =yea
xxx S2: supposedly Matt graded these.
xxx that's why it's (so hard)
xxx IS2: yea yea yea yea.
xxx Matt
xxx yea
xxx Matt is (grading)
TRP S2: it's so- he's a harsh grader!
TRP IS2: have you-have you talked to him?
TRP S2: what