## Fragment

$01 \mathrm{~T}: \ll f>$ now, $>$ ( 0.57 ) ethans group can you put all your things (0.36) onto the purple mat
02 (1.36)
$03 \mathrm{~T}:((:$ to helper)) <<p>annlee would you want to take the cone label and just put it down to the cone mat> ((points to the cones))
04 A: <<p>okay,>
05 (0.23)
$06 \mathrm{~T}:$ and tAKE a look at all thESE things that thEY say <<to helper, p, dim>just; just lay this one down> ((points to cones)) ANd (2.92) bENs group says that thESE are ALL: :
07 (0.75)
08 B: cubes.
09 (1.19)
$10 \mathrm{~T}:$ these are A::ll? (0.80) cu:bes? (0.54) okay? (2.79) and EVerybody i want you to look at theirs and, (0.73) <<all>thEY say they are all cubes. so they are gonna explAIN to us> (0.53) <<f>whAT> (0.23) makes a cube a CUbe.

11 (0.94)
$12 \mathrm{~T}:$ so ethan do you want to start? (0.35) whATs ONE thing that makes a cube a cube.
13 (0.58)
14 E : all the sides that it has,
$15 \mathrm{~T}:$ sorrY?
16 E: all the sides that it has they are all the same they are A:Ll the same on each side.
17 (0.28)
$18 \mathrm{~T}:$ okay so you=are sAYing ALL: the sI:des <<rall>are the same> <<len>and what do you mean by the same.>
$19 \mathrm{E}:$ well each one is the same size, () and each ones the same (0.84) the same red square and like. (0.76)

21 T: okay. so; (0.17) ETHhan says they=re A:Ll the same size (0.48) and they=re <<len>a:ll squa[:re]>
$22 \mathrm{X}: \quad$ [squ]are.
23 T: okay?
24 (4.62) ((Mrs. T is pointing to oisin, getting up from seat))
25 T: oshin
26 O: well (0.60) um (1.55) ((takes yellow cube)) well (0.83) um the squARes () ALl have ((rotates the cube in his hands)) (1.40) four corners (0.46) and this square ((picks up another cube)) has four corners. ((picks up yellow cube)) (1.26) and A:Ll the squares here ((moves yellow cube above group of cubes)) have; (0.55) four corners. (0.71) and; (4.46) and; (0.62) s:0:: (1.05) and (0.62) <<all>all of them> (1.15) have () four corners. (0.47)

28 T: okay, ((gets up, walks to Oisin's group)) () SO; (0.43) if wE take the one you started with (0.73) ((picks up yellow cube, backs off to her seat)) and tALk about it as being a cUBE because it has () ALl squares, (0.74) ((touches faces with palm, rotates)) faCES (0.73) and they=re A:Ll the sAME? (0.29) <<p,all>thats what you said they were all square faCES,> (0.84) and we looked at EAch one of the O:Bjects that they hA:D ((has gotten up, stepped closer, points to the group's objects)) (0.63)
can WE see that every single one of the objects that they found is a; () is lIKe () th[IS]? ((shakes cube))

29 X :
$20 \mathrm{~T}:$ [is ] the [s[a:]m]e
$31 \mathrm{Y}:$ [yea]
32 X :
$33 \mathrm{Y}:$
34 E :
no plea
it papers)) (0.37) <<p, dim>and they dont really [look like this]>
5 B: [and becaus ]se they=re um (0.31) they=re flatter. (0.53)

E: and these ones ares like ((picks up cubes)) <<p, dim>they=re still just like dont look like those> ((shakes head sideways)) (0.37)
$9 \mathrm{~T}:$ okay, () so dOYou want to DO:
E: <<p>this one>
(0.25)
$2 \mathrm{~T}:$ these ones ((gets up, moves to group, touches papers, moves them off the purple pad)) () what about thIS one.
43 (0.70)
$44 \mathrm{E}:$ well thiS ones not really like a square because <<dim>it doesnt match the square one like the [thing] like>
$45 \mathrm{~T}:$
[okay,]
46 T: but its (0.24) wHY: is it; whAT did you what did you pick up; what why are they kind of like the cUBe?
47 (0.86) ((Ben raises hand))
$48 \mathrm{E}:$ well because (0.32) <<dim>well we only get this one and (??) the square> just because [this] one has squares.
49 T:
50 (0.55)
51 B: because um ( 0.51 ) these () um this um ( 0.52 ) <<all>probably> if they had more ((holds post-it stack next to cube)) um little paper () it would actually fill up to thERE ((filling movement from top of stack to top of cube)) (0.21) and if it was a little bit longer ((hands showing paper to be size of cube))
52 (1.27)
$53 \mathrm{~T}:$ okay so IT would nEEd to change a little bit to be a cube then ben. is that what you are saying?
54 E: yea. but.
$55 \mathrm{~T}: \ll \mathrm{p}>o k a y,>$ so if you could put them OFF: can you just put them to the sIDE (0.50) so that we know they are no:T really cube like ( 0.44 ) but ( 0.92 ) but <<acc, dim>they
[look a little bit like cubes]>
56 E: ((picks up paper)) <<p>[this one is like a cube>
57 B : these ones are like (0.29) thats like () square ((gesture palm at face of yellow Post-it pad that he has picked up))
57 (0.54)
58 T: its a cu its like a cube because it has a [square]
59 B:
60 T:
61 B:
to it when you [hold it]
[but it]s tinier ((rapid movement down the side of the pad, then pushes pad between two hands))
$62 \mathrm{~T}:$ but then you turn it thAT way and its its not very square lIKE,
(0.52) and cheyenne what about the piece of paper. (0.26) ITS like a cube because its ^what. (0.71)

C: because::e um it looks like a square?
T: <<p>uh hm>
(0.38)

C: [an:d ]
T: [but its] nOT a cube because why (0.98)

C: because its not straight ((picks up red cube)) (1.14)

E: ((holding up yellow cube)) like having sides (0.72)

C: like thIS: ((strikes each of $x, y, z$ faces))
(2.66) ((Cheyenne places palm on side of red cube))
$\mathrm{T}:$ doesnt have all those different sides. okay. thank you. (0.35)

C: <<pp>[doesnt have all the sides ]>
[now we=re gonna move on to the next] group. ((points to the group next to the one that has currently presented))

