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START AUDIO

Female 1: Together sale.

Female 2: Yes, absolutely.

Male 1: Just generally chat.

Female 2: I mean how did you like it today?

Female 1: I really liked it, I mean I was quite involved in the making process and I wasn't unfortunately paying attention to your group because you were both working with them. And I was helping [P5] and [P2]'s team. I think they work extremely well, I think everyone in both teams work extremely well. I really enjoyed the process.

Female 2: I liked how [P5] said, "Oh I made it." I really thought that was really cool.

Male 1: Yes, it was really touching, it was like, "I did it." And also seeing it go orange and he was quite involved with it.

Female 2: He was really getting it, yes. And even though none of them today had ever programmed before I thought they were really good in picking up what it is. I mean maybe not like being the most autonomous coders yet but definitely able to understand simple codes now, at least when it's like digital write and digital read and these kinds of things, I think they get it.

Male 1: I think they helped each other out really well. They obviously know each other.

Female 2: Yes, [P1] only knew [P5] from [Boettcher 0:01:33] before.

Male 1: Okay.

Female 1: That was what I was going to say about the teams are very nicely spread, [P2] knows [P5] and how he works in a team and [P5] knows what his part as being part of the team is.

Female 2: Yes.

Female 1: They together work extremely well.

Female 2: How was it in your group?

Male 1: Yes, they worked together well, because I was kind of doing all of the wiring, it was kind of sometimes I was like how much do I go, "What do we do now?" and how much am I patronising them by going, "Where shall I put this?" Although there needs to be an extent of that, so sometimes I was like, "I'm going to put it here, does that sound right?" And they're like "Yeah" and then it's like, "Oh which port shall I put it in?" So it's not too –

Female 2: Yes I think maybe one side with [P1] he works very, very independently, like his navigation and just direction also was really well but he has definitely – it was actually the first day today that I noticed that he was really starting a conversation with someone here.

Male 1: Oh really?

Female 2: Yes.

Male 1: Okay.

Female 2: So that was really amazing actually for me to see how confident and comfortable he feels here because until now he was mainly just answering in yes and no and maybe just single words, but never really going into a whole conversation.

Male 1: And it started off that way because I was sat here and was just kind of talking and we were just passing them round, so he wasn't saying that much, but then when I sat in the middle and he took over the –

Female 2: The mouse.

Male 1: The mouse, he had a clear role then and then a few things, like, "oh can you scroll up? Can you scroll down?" And because he's the only one with the mouse so he has to do it and then it was kind of through that that you kind of start a conversation.

Female 2: Yes, I think it was a similar way of inclusion that happened in this group as well because [P5] he has of course also the problem with dyslexia.

Male 1: Oh is he dyslexic?

Female 2: Yes.

Male 1: Okay.

Female 2: So he has also a little bit – I'm always trying to make everything sounding as simple as possible mainly because of [P5]. I know for example with [P1] I wouldn't have to talk in that simple language.

Male 1: But it is helpful actually just saying even for me, it's like clarifying –

Female 2: ____[0:04:20].

Male 1: But [P5]'s mum was saying how good it was, how simple you were saying it and how she was surprised how much she understood based on that.

Female 2: That's cool.

Male 1: Just value to that simplicity, which I think is good.

Female 1: Oh you know what, [P2] was also working quite independently, I was like, "Grab ____[0:04:47] and put in some wires immediately." But he just gave us male to male wires and they put them in there in the port, and how easily he can put the wire into a ____[0:05:00] I was like, okay, they don't really need my help so okay, that's fine.

Female 2: Yes.

Male 1: If you have the dexterity it's really easy because it's just –

Female 2: Yes, it's only tricky if you have – for example in [P2]'s case he only has one hand that he can really use, so the other hand is mainly okay he could maybe have it lying on it.

Male 1: Just to support.

Female 2: Just stabilising it, but something where you would need two hands, I guess that would be an issue for him.

Male 1: Yes.

Female 1: I would never have thought that I'm working with disabled person because he works independently, he knows what he is doing, he is working with code very well. Yes in the beginning he was like sometimes missing the capital letters in the functions, but this was only in the beginning. And then he was writing the code independently.

Female 2: Definitely.

Female 1: Absolutely.

Female 2: And I deliberately tried not to give too much guidance then. At first I was really showing what I'm doing, explaining and all the other thing was actually increasingly done independently.

Male 1: The only thing was because I was doing all the typing they wanted me to do the typing, but I could ask them, "Okay what am I putting here?"

Female 2: Yes, what do you type?

Male 1: Yes, what do I say? What are we going to call this variable? How long are we going to delay?

Female 2: Yes.

Male 1: And during that process as well, they were like, oh shall we put a delay there? And I was like, "Oh I hadn't thought of that." And it's kind of nice, that sort of co-working thing.

Female 2: Absolutely.

Female 1: [P2] also is very good at problem solving, because we were like thinking how to make the lights flashing right after another without any delay and they were like, "How do we do that?" And he was like, "Do it in delay. There is no need in there." I was like, "Okay", I would ____ [0:07:02] what should I do in the next 10 minutes probably, and he solved the problem like minutely.

Female 2: Yes, also it was really impressive like in the first exercise I asked, "So what do I do in order to get this out?" And he was saying the command right away.

Female 1: ____[0:07:22] yes.

Male 1: He's got a very mathematical mind.

Female 2: Yes, I mean the funny thing is because he's working as an IT person, so he knows how to plug in stuff and I think he knows how to use software quite well. However I also ask him if he has coded them because I would think, "Okay if you did something IT it's quite possible that you are coding" but no, no he has never coded before.

Female 1: How would he be an IT guy without coding stuff?

Female 2: Well I think if it's just like –

Male 1: More practical.

Female 2: Yes, practical and application things, so you are plugging together a modem and then you put the settings, something like that.

Female 1: Okay.

Female 2: So what else on the questions?

Male 1: Challenges, support was – kind of covered some of it.

Female 1: I would say that [P5] faced the problem with – it was the worst workshop for him because he couldn't do much. He was just scrolling up and down pressing the left button.

Male 2: Hey everyone.

Male 1: Are you going?

Male 2: Yes, what are you doing?

Female 2: Debrief.

Male 1: We're just debriefing, are you going to the pub?

Male 2: I'm going to the Cumberland Arms.

Male 1: Oh okay.

Male 2: Yes, I thought that would make you not happy.

Male 1: It's not happening.

Male 2: If anyone wants to come to the Cumberland Arms.

Male 1: See you later. Yes so did you feel like [P5] didn't enjoy it as much as the other sessions?

Female 1: Yes, remember I asked what kind of sessions he liked the most, he didn't ____[0:09:07] but he said I prefer the 3D printer more. Because he could scroll, he would choose the shapes on the screen.

Female 2: Yes, and even so he said, "I did it" afterwards he said, "Yes, I couldn't type anything and it would take too long", and I know why-

Female 1: Because his operation was just on paper.

Female 2: Yes, I mean even his keyboard is also a special keyboard; it has like bigger buttons for the different letters and it's also I think capacitive touch so you don't need to press anything down really because he has really little strength in the fingers.

Female 1: And in the beginning he was trying to understand, he was trying to be involved, then in the middle or closer to the end he was completely lost and just ____[0:10:05] looking at you mostly.

Female 2: Yes, like building on something.

Male 1: I wondered though whether a drag and drop block coding, and I wondered for –

Female 2: Dan?

Male 1: Dan, yes.

Female 2: Because then he could just drag it.

Male 1: Because for some of the coding he could copy and paste, so that was good. So I was thinking almost ____[0:10:31] you could have just blocks of code that you can just copy across and then change the odd thing.

Female 2: If he happens to want to do anything with electronics or coding, would microbits be a-?

Male 1: Yes, so there's the microbit environment; have you seen it? I'll show you some time.

Female 2: Yes, that would be great.

Male 1: Because I think it's – I get frustrated with it, or I've used it a couple of times and I've got a bit frustrated because I'm like, "What's a four loop?" And they call it like a forever loop or – you know I find it easier just to –

Female 2: Yes, to type it in.

Male 1: But when I've been doing it with young people that block coding is so intuitive.

Female 2: And also drag and drop works better for him than typing.

Male 1: Yes, and he's really quick.

Female 2: He's quick, yes.

Male 1: But it's on the – it's got a real kind of quality to it.

Female 2: The passionate scroll.

Male 1: [P5]'s mouse is it different? It's like a joystick thing.

Female 2: It's a joystick, it's actually the same mouse, the same platform, but over there it was a roller ball in there, so that works for[P1], but he has a joystick on it with a handle so he has more space to really –

Male 1: Because of his hands.

Female 2: Yes. How about –

Female 1: So basically yes, [P5] needs assistance; he will not be able to build the ____[0:12:13] by himself, he will always need an assistant. In the opposite to [P2] he doesn't need any help, just hold the ____[0:12:23] a little bit. I even asked him if he could put the wire inside the pen; he managed really well. The only thing is probably just removing the buzzer or –

Female 2: Yes, the button was really hard to get in there, yes.

Female 1: Exactly. But I think that everyone enjoy the technology extremely. The other thing as an advice, I would add a little bit more videos to allow the ____[0:12:54] possibilities. Just my advice.

Female 2: Yes, maybe instead of my introduction with passing around the different components.

Female 1: No actually that was very important because you see the size and you can touch them.

Female 2: And I think it was quite good that they could try out to put into a ___[0:13:08] or not, right because for [P2] it was at least really like, okay let's try it first and then I see how much assistance I need.

Female 1: And they gave only the most important guidance because you just told only about what they going to do just now, you didn't dump their head with useless information that they're not going to remember even. So that was a very nice thing about the [teaching 0:13:33] stuff.

Female 2: I thought it was so nice of [P5] saying, "Janice you are a good teacher."

Female 1: So nice.

Male 1: He's just very sweet.

Female 2: Absolutely, really friendly, and everyone says so much thank you. Oh my god.

Male 1: It's like, "Thank you for helping us out."

Female 2: Yes.

Female 1: And despite all these impairments [P5] is trying to speak a lot, compared to [P1] who is mostly keeping silent.

Female 2: Absolutely just roars out of there, yes.

Male 1: He's very chatty.

Female 2: And he's very funny with that because also the interview like he kind of hijacked the interview a little bit, yes, so he's the only person who just starts to ask questions himself. And I actually like the questions that he's asking; they all make a lot of sense, like why does it have two sides? Why is it not one side? Well maybe he has a good reason.

Female 1: He was also interested in what kind of research you were doing in the beginning.

Male 1: It was nice that he asked about that. Actually [P1] did as well, we were just – like after a while he sort of asked what I did before I came here and that kind of thing, so yes, they have a real curiosity which is really nice.

Female 2: I think so yes, which is also a bonus for them actually coming here, being in a real research lab and I think they also enjoy

that it's different people all the time joining the workshop and getting to hear a little bit of different stories and expertise.

Male 1: Yes.

Female 2: How was it for you to be workshop assistant today?

Male 1: It was great and I really enjoy working with people with additional needs, it's just very rewarding.

Female 2: It is, yes.

Male 1: Just because you really know like it makes a real impact on their day, this is what they'll talk about this evening.

Female 2: Absolutely, yes.

Male 1: Oh yes, we went here and we made a circuit board and we met these people. Especially just because if you just give people a bit of time then they'll tell you so much, wrestling and jobs he's applying for and [P1] at Northumbria doing business studies, it's like wow.

Female 2: Yes, that's great, also I feel like after having all three sessions done I already feel like having kind of a relationship with them in a way that not only that I figure out like what is best, giving

them an object for example, what works for whom. So I find my ways how to interact with them more naturally, but also like I start thinking about them all the time kind of like, “Oh yes, that would be something for [P5] or this would be something maybe for [P1].” And this is just what happens when you work so closely with someone I think, and something that I noticed today also is that the group really harmonises, like I mean okay three of them are obviously already friends or do a lot together, but [P1] also fits in very well I think.

Male 1: Yes. It's the friendship, it's the social dynamic and I think that really comes through the building, making something together.

Female 2: Totally.

Male 1: Yes.

Female 2: I'm wondering if when I go with them to the maker space, so if the maker space is happy with that, that's the first question. But if they get a tour and decide that they actually want to be members there, I wonder if they really would kind of meet up there every now and then.

Male 1: Yes.

Female 1: In the maker space?

Female 2: Yes.

Female 1: Where is it?

Female 2: Down [anonymised] Street and a little bit towards the ____ [0:17:49] gallery. I always forget the name but it's next to - what's it called? The gallery space.

Male 1: The [anonymised], yes.

Female 2: Yes, so there is a maker space there. They actually even have like an accessible ramp; just the door is really hard to open so I think that you would need to –

Female 1: Isn't the place we chose the workshops or – what kind of place is that? Is this a place where the workshops like that have been running?

Female 2: Yes, they have a laser cutter, they have 3D printers there. One thing is it's just historically evolved where what is stored and it's quite tight I think. I'm wondering how much – now that they saw how well they navigate actually through a space and our doors are not very wide, but they manage easily. But I wonder how it would be in the maker space where it's often that people just leave something in the way. So I don't know, I mean I will talk definitely to the maker space organisers and ask them if they would be okay with me and the participants coming by and they just get a tour.

Male 1: Just having a look, yes.

Female 2: Yes, because I mean basically they are kind of trained now to use the machines. They know what it's about and okay they would have probably to do another safety instruction at the maker space, but –

Male 1: Bit of extra help, but yes.

Female 2: But I think maybe this lowers the barrier to really get active.

Male 1: No, I think so; because it's not scary anymore it's just –

Female 2: Yes, especially in [P1]'s case, I think he would really enjoy it; he's very independent in what he does. So it's more the access to the tours really. So now that they just get to try it out I think it gets quite obvious that they would like to use it more.

Female 1: To be honest I thought about this session about what are the most ____ [0:19:50] because something would definitely go wrong. It's not about you can do something on the screen and something is wrong, you just control that and that's it. I was worrying about how the circles work together, how they put parts all together, but it all turns up to be great and one of the best sessions surprisingly. Also a very interesting thing about

___[0:20:12]- Remember the last time he was trying to complete the ruler?

Female 2: Yes.

Female 1: And remember we had a not working buzzer, in the end he asked if they could try to rebuild the circuit to check if it actually works, and it works, surprisingly. And I think if we give them a chance they will keep doing this.

Female 2: Absolutely a chance and time. I mean they seem quite patient as well. It's not that they get – maybe [P5] gets a frustrated a little bit easier because it's probably harder for them to understand everything that's happening but the others are very patient I think. I mean I don't know about [P4] since he hasn't really done so much himself.

Female 1: Yes, [P4] is under question mark.

Female 2: Yes, he seems like the first – in the 3D printer session he was like, "Oh yes I will play at home with the 3D modelling thing." So he didn't really want to do it.

Male 1: Kind of have to take a step back a little bit and kind of –

Female 2: He's more like the observer, yes.

Male 1: Contributes a bit and then steps back. Yes.

Female 2: But maybe that's just his personality that he doesn't want to-

Male 1: Just his manner, yes.

Female 1: But he is always smiling and having a very nice-

Female 2: Yes he seems to enjoy it anyway, that's out of question but it's just maybe being still a bit afraid of the technologies that he don't know, because with a camera he's like, "Oh yes I want to try this."

Male 1: Yes, see that was great.

Female 2: Yes, so that seems to be the thing.

Female 1: Or he just didn't want to ____[0:22:04] also. And ____ definitely get on the tape.

Female 2: Yes, alright I actually need to go now, so thank you very, very much for your help.

Male 1: You're most welcome and I'll – whenever you're doing the – I'll just drop by and say hi.

Female 2: Yes, absolutely, be most welcome to do so.

Male 1: When are your – are they Wednesday/Thursday?

END AUDIO

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