

CS 325_Affinity Diagram_Activity

Overview: This activity is designed to give students some exposure to preliminary analysis of data and how to organize them in categories using an affinity diagram.

Instruction: Below and on the next page is a transcript from a video that shows an occupational therapist who is helping a child to improve his handwriting.

The goal is to **“design an interactive system to help children improve the quality of their handwriting.”**

Individually:

Step 1) Review the transcript and your own notes

Step 2) On post-it notes: write down each example of a problem/situation that you observed in the video

In your group:

Step 3) Organize the post-its into categories using an affinity diagram

P1: the first thing that we are gonna do is wake up your hands. So before we start running we have to wake up your hands, right? It could be sleepy and tired...so go ahead and put that Theraputty on the table...this is call Theraputty...what is it feel like? gooey...hard, right? exercises your finger.. Go ahead and make hole in there...wake those fingers up...role it like snake...do all kind of stuff with it and this comes in all different kinds of hardness...you can get a little bit softer, harder, depending on how old you are and how strong you are...

So that's how we wake up your fingers...once your fingers are woken up you know you could make your fingers up with Theraputty, with some push ups, you can do some moving around your hands, you can do some pegs and peg board, you can do all kind of stuff to wake up your hands...

Now that your hands are awake, we are gonna start to write...now, how was your engine feel...how does your body feel now? Does it feel just right? Fast? Slow? A little bit fast right?

P2: yeah.

P1: so there are a couple of things that you like to do...when your engine is fast...in order to deal with sit down and write...so one thing we could do is we have this weighted heavy blanket and we can put this on you and it give you little weight to hold you down...ok? We also have a vast that we could use it for that...now, another thing we could do if you don't

want the vast, we can always use this for 20 minutes so once you are done with that we could put you on a ball or another kind of ball that calls peanut and so that you constantly moving around a little bit and kids can sit still better...right? You used this before? All right we are gonna leave that right next to you...

P1: now...we are going to write! You right very fast and a little bit messy right? Yes, because your engine going so fast ...so we already tried to slow you down a little bit and other ways to try to slow you down could be first of all using a timer so that you have to write until the timer stops so you don't write too fast, correct? And then we have pencils that have weights on them so they slow you down a little bit...these are Fiji pencils, these are more for like when you are waiting after you are done writing a sentence so you don' have to sit doing nothing so you have something to do and it doesn't come off and we have paper that has lines on it to keep you in the lines so you have to stay between the two red lines, right? You are ready?

P2: yeah!

P1: How is your engine feeling now? Little slower, right? Ok, which pencil are you gonna use?

P2: this one!

P1: okay! Here goes the timer, you ready?

P2: which I write?

P1: you can write well let's see your shirt. How about go Black Hawks? Ready? Now you want to make sure that your feet are on the floor, your elbows are on the right height and the chair is very important...we already talked about that...with the ball, the chair, the blanket, go!

P2: writing...

P1: We need a capital...hit those two red lines...let's move this up a little bit ...ok, go ahead...this is a Slam board, which is easier to write and also when you are copying from the blackboard...here, we back [...] to show everybody! Slam board when you are copying from the wall, it is just easier than going all the way down to the floor...

P2: capitalize?

P1: you have it right here! You can capitalize...there you go! And then...oh wait, really slowly...let's make it a little bit faster because the time is almost stopped, we definitely slowed you down...nice! Ok! And now let's just copy this and you see how it is a little bit easier with slam board to copy this...just write 2010...right there...beautiful! Just one more thing...wait, wait, this is your helper hand...you need your helper hand on the paper! Go ahead.

P1: good work! All done. Hi five! Ok go take a break! Go run around...

Video Part1 :

https://www.youtube.com/watch?v=A_u1tmXvcyg

Video Part 2:

https://www.youtube.com/watch?v=GPC4y1jl_es