**Employment Case Study #3 – AT Category: Math**

**Human** – An engineer at a large company became paralyzed after an accident. Having limited use of her arms and hands, she began using Dragon Naturally Speaking voice recognition software. However, she was concerned about her ability to continue with mathematical functions.

**Activity** – create reports by typing; engineering calculations

**Assistive Technology**

**Low-Tech Mid-Tech** **High-Tech**

**Laptop - Voice recognition - MathTalk**

STEP 1: Based on HAAT data, enter descriptors or functions needed by the person across the shaded top row - 1 descriptor per column

STEP 2: Enter promising tools in the shaded left column - 1 tool per row

STEP 3: Note whether each tool matches a descriptor by placing an “X” in each of the applicable white boxes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Descriptors** | Type by voice to text | Independently enter math equations and solve (by voice) | Portable and lightweight laptop | Operating system |
| **Tools** |
| **Voice Recognition for typing** | X | X |  |  |
| **MathTalk – hands free typing and navigation** | X | X |  |  |
| **Laptop for work** | X | X | X |  |
|  |  |  |  |  |

**Modified from Joy Zabala’s SETT Scaffold for Tool Selection by Oklahoma ABLE Tech  
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