

Date:

Class:

StudentID:

Observer:

Activity	Student Doing	Teacher Support Students
	<p>1. Cognitive Demand</p> <ul style="list-style-type: none"> <li>- Students design the object [based on activity]</li> <li>- Students understand the goals of the activity</li> <li>- Students explain their goals, reasoning, and support conclusion</li> <li>- Students can identify of the appropriate resources/tools and explain them</li> <li>- Students make hypothesis or prediction or construct quick sketches/models to share the idea or approach to the project/problem</li> <li>- Students appear challenged (<u>Go to troubleshooting section</u>)</li> <li>- Students actively engaged in the class                             <ul style="list-style-type: none"> <li>o Students focus on materials/designing process</li> <li>o Students engage in the practice of inquiry with the teacher</li> <li>o Students engage in the practice of inquiry with other students</li> </ul> </li> </ul> <p>2. Metacognitive strategy</p> <ul style="list-style-type: none"> <li>- Students make choices during the course of the lesson [based on activity]</li> <li>- Students changes/adjusts the choices based on testing/feedback</li> <li>- Students take initiative to use resources available to them to complete their work</li> <li>- Students ask questions to the teacher when they are unsure</li> <li>- Students ask questions to peers when they are unsure</li> <li>- Students answer questions when they are unsure</li> <li>- Pause to think about learning/understanding</li> <li>- Students point out a connection between the lesson and real world</li> </ul>	<p>- This section may include some strategies</p> <ul style="list-style-type: none"> <li>● Asks guiding questions</li> <li>● Facilitates student in answering their own question</li> <li>● Models appropriate use of tool/resource</li> <li>● Makes applied connections with familiar elements</li> <li>● Provides diverse tools/materials)</li> </ul>
<b>Student Materials &amp; Resources</b>		<b>Quick Notes from Observation</b>
<p>__ Student Computers</p> <p>__ Chromebooks</p> <p>__ Teacher Computer</p> <p>__ No Computer</p> <p>__ Maker resources</p> <p>(Specify:</p> <p>__ Worksheets</p> <p>__ Website</p> <p>__ Reading materials</p> <p>__ Other:</p>	<p>4. Student Collaboration</p> <ul style="list-style-type: none"> <li>- Students assist other students with their work (Students share skills or knowledge)</li> <li>- Students listen to or observe one another when working in a group</li> <li>- Students ask questions to other peers or offer an explanation of their project</li> <li>- Students work together collaboratively</li> </ul> <p>5. Troubleshooting</p> <ul style="list-style-type: none"> <li>- Students ask for help before trying to attempt the problem (e.g., I don't get it! I don't know)</li> <li>- Students clearly express how they need help with a difficulty</li> <li>- Students try different approaches on their own (Persistence)                             <ul style="list-style-type: none"> <li>o Students seek different ideas, tools, and materials to solve the problem</li> <li>o Develops workarounds</li> <li>o Students dissect the problem component</li> <li>o Repetitive tasks to figure out a function or trying different configurations</li> </ul> </li> </ul>	

**Mapping Classroom Movement**



