## Dogbot

Name(s):		Date:		
NGSS GOALS	PDONZE	SILVER	GOLD	PLATINUM
NG55 GOALS	BRONZE	SILVER	GOLD	PLATINUM
In this project, we dre	d to this Crosscutting Con ew and labeled our favori otion patterns we observe	te dogbot design. We ex	plained how the three imp	portant parts worked.
Patterns: Observed patterns of forms and events prompt questions about relationships and the factors that influence them.	<ul> <li>We drew and labeled our dogbot.</li> </ul>	<ul> <li>We met Bronze.</li> <li>We labeled the three important parts of our dogbot.</li> <li>We drew at least one motion pattern for one of the dogbot parts.</li> </ul>	<ul> <li>We met Silver.</li> <li>We explained how the three important parts worked to create a motion pattern in the dogbot.</li> <li>We drew at least two motion patterns for our dogbot's parts.</li> </ul>	<ul> <li>We met Gold.</li> <li>We researched and shared with our teacher or classmates the motion patterns in our dogbot that exist in real dogs.</li> </ul>
<ol> <li>Student work related In this project, we but</li> <li>Developing and Using Models:</li> <li>Use a model to generate data to test ideas about designed systems.</li> </ol>		<ul> <li>ifferent ideas to explore h</li> <li>We met Bronze.</li> <li>We built three cam designs and tested them on our dogbot's eyes.</li> </ul>	<ul> <li>We met Silver.</li> <li>We changed our model to test the jaw motion with three different peg positions.</li> <li>We changed our model to test the tail motion with three different pulley set-ups.</li> </ul>	<ul> <li>We met Gold.</li> <li>We proposed and tested at least one new design idea for either the eyes, jaw, or tail.</li> </ul>
3. Student work related to this Practice: In this project, we investigated how the different cam, peg, and pulley settings affected the motion of our dogbot.				
Planning and Carrying Out Investigations: Collect data about the performance of a proposed object under a range of conditions.	• We completed our predictions and observations for our dogbot eye movement experiment.	<ul> <li>We met Bronze.</li> <li>We completed our predictions and observations for our dogbot's jaw experiment.</li> </ul>	<ul> <li>We met Silver.</li> <li>We completed our predictions and observations for our dogbot's tail experiment.</li> </ul>	<ul> <li>We met Gold.</li> <li>We completed our predictions and observations for at least one new design idea for either the eyes, jaw, or tail.</li> </ul>
Notes:				