Innovation Project Scoring Rubric Project Name: 2 4 3 1 · Design is for entertainment or Design Design aims to solve a real world Design aims to solve a problem · Problem the design aims to solve is problem Need for the original or improved not clear amusement Process Need for the original or improved design serves a purpose · Need for the original or improved There is no compelling purpose for the design is compelling Prototype adequately functions design lacks purpose original or improved design Prototype successfully functions · Prototype functions but has Prototype does not function limitations Student clearly understands real Student understands all facets of the · Student research to identify a Student research to identify a problem is Research world problem problem solvable problem is weak absent · Student clearly articulates criteria for Student articulates basic criteria for a Student articulates some criteria for a · Student is not able to articulate which a successful design successful design successful design while ignoring other design components are successful, or Student anticipates improvements of • Student anticipates the need for criteria how they solve a problem prototype and has researched ideas improvement and has brainstormed Student acknowledges need for • Prototype is presented without ideas improvement but has no ideas addressing improvements · Design process was followed Design process was present · Elements of the design process were Procedure Design process was not followed Multiple iterations of a design solution Multiple iterations of a design solution missing Single design solution was defined were defined were identified Iterations of possible design solution · Improvements to the prototype were Criteria for design choice is clear Criteria for chosen design is not clear were brainstormed but not formalized absent or not evidenced during the Prototype was rebuilt to make Some prototype improvements were • Improvements to the prototype were process improvements during the process made during the process minimal during the process Materials list not included · Materials used were clearly · Materials used were adequately Materials used were not clearly communicated communicated communicated • The prototype partially solves the · The prototype minimally solves the Presentation of • The prototype solves the problem The prototype does not solve a problem · Properties of chosen materials were problem problem · Properties of chosen materials were not Solution thoughtfully considered · Properties of chosen materials were · Properties of chosen materials were considered Notebook to record design process considered minimally considered Notebook to record design process was was used with fidelity Notebook to record design process Notebook to record design process not used or is not present was used sporadically was used Student Student clearly communicates how or · Student partially communicates how or Student has difficulty discussing Student is unable to discuss design why the revisions to their design why revisions to their design worked design revisions because they may revisions because they may not have Understanding worked and didn't work during the and didn't work during the process have been minimally present been present process · Student articulates how improvements Student can discuss with prompting · Student is unable to discuss with · Student successfully articulates how from judges how design improvements would allow their prototype to function prompting from judges how design improvements would allow their better but may have flawed reasoning would allow their prototype to function improvements would allow their prototype prototype to function better Student demonstrates understanding better to function better • Depth of understanding is present Student may have difficulty Student does not demonstrate demonstrating understanding understanding Additional **Total points:** comments:

Grade: _____ Project Number: _____

Oak Hills 2024 STEM Expo