



JUDGING RUBRIC: OSHClub Inventions and Innovations Years 5–6

Level	Description
5	<p>The student has provided clear and convincing evidence that he/she:</p> <ul style="list-style-type: none"> • actively designed and built an invention or innovative device showing considerable planning • identified a need or problem and developed a solution that is useful to people • gathered relevant background information and evaluated the originality of their design by exploring related existing devices or applications • had a thorough understanding of the technological concepts related to the need, problem or innovation • employed quality and safe construction skills • carefully selected materials • produced an invention or device that was easy to use and performed as intended • had shown a creative approach in stages of the design process • critically tested the invention or innovative device, discussing any improvements that could be made • included a thorough log book or portfolio, detailing the design process from initial ideas, through construction, to final product and evaluation • acknowledged all assistance given • included succinct instructions to assist the audience in the invention's or innovative device's operation
4	<p>The student has provided substantial evidence that he/she:</p> <ul style="list-style-type: none"> • designed and built an invention or innovative device over a period of time • developed an invention or innovative device which was a response to a need or problem, different from existing devices • performed relevant background research and looked for similar products already on the market • had a good understanding of the technological concepts related to the innovation • demonstrated some creative aspects • had shown skill in the safe construction of the invention or innovative device • tested the invention or innovative device and it worked consistently • included a log book or portfolio detailing the different stages of the design process • acknowledged any assistance given • included clear operational instructions to assist the audience
3	<p>The student has provided evidence that he/she:</p> <ul style="list-style-type: none"> • planned and built an invention or innovative device • developed an invention or innovative device which was a solution to a need or problem • performed some relevant background research • had reasonable understanding of the technological concepts related to the innovation • displayed satisfactory workmanship in the design and construction of the device • had the device working at some stage but it needs further work to improve its reliability • provided design and construction details in a log book or portfolio • acknowledged some of the assistance that was given • included a set of operational instructions to assist the audience

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2	<p>The student has provided evidence that he/she:</p> <ul style="list-style-type: none"> • built an invention or innovative device without much planning or design • set the device in some sort of technological context • had an invention or innovative device that is reasonably made but did not perform as intended • provided limited designs and construction details in a log book or portfolio • informally mentioned assistance given • included an incomplete set of operational instructions for the audience.
1	<p>The student has provided evidence that he/she:</p> <ul style="list-style-type: none"> • entered an invention or innovative device that does not work • had minimal understanding of the related technological concepts • made an invention or device with poor workmanship and limited documentation • failed to acknowledge assistance given • failed to include instructions on how to operate the invention or innovative device