**Young Scientist Awards**

**JUDGING RUBRIC: OSHClub Inventions and Innovations**
**Years 3–4**

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| 5     | The student has provided clear and convincing evidence that he/she:  
* designed and built an invention or innovative device showing **careful planning**  
* **developed** an invention or innovative device in **response** to a need or problem  
* **gathered** background information and **considered** the **originality** of their design by exploring similar designs on the market  
* had a **good understanding** of the **technological concepts** related to the need, problem or innovation  
* demonstrated **safe** and **independent** construction skills  
* selected **suitable** materials  
* produced an invention or device that **performed as intended**  
* had shown a **creative** approach at some stage of the design process  
* **tested** the invention or innovative device, **listing** any improvements that could be made  
* included a log book or portfolio **detailing** the different **stages** of the design process  
* acknowledged all assistance given  
* included clear instructions to **inform** the audience about the invention’s or innovative device’s operation |
| 4     | The student has provided substantial evidence that he/she:  
* designed and built an invention or innovative device with **minimal assistance**  
* developed an invention or innovative device which was a **solution** to a need or problem  
* performed background research and **looked for** similar products already on the market  
* had some **understanding** of the technological concepts related to the innovation  
* demonstrated a **creative** aspect in the design process  
* considered **safety** in the **construction** of the invention or innovative device  
* **tested** the invention or innovative device and it **worked**  
* included a log book or portfolio **showing** the different **stages** of the design process  
* acknowledged any assistance given  
* included operational instructions to **assist** the audience |
| 3     | The student has provided evidence that he/she:  
* **planned** and **built** an invention or innovative device  
* had an invention or innovative device which was an **attempt to solve** a problem  
* performed **some relevant** background research  
* showed **basic** understanding of the technological concepts related to the innovation  
* displayed **satisfactory** workmanship in the design and **construction** of the device  
* had the device working **periodically** 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 some operational instructions to **assist** the audience |
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### Years 3–4

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| 2     | The student has provided evidence that he/she:  
|       | • 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 **roughly** made and **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     | The student has provided evidence that he/she:  
|       | • entered an invention or innovative device that **does not work**  
|       | • had **poor** 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 |