Young Scientist Awards

JUDGING RUBRIC: OSHClub Inventions and Innovations Years 3–4

Level	Description
5	The student has provided clear and convincing evidence that they: • 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 they: • 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 they: • **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

Level	Description
2	The student has provided evidence that they: • 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 they: • 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