

DESIGN Solar Ovens Year 2	IB LANGUAGE	SCIENTIFIC LANGUAGE		IB LANGUAGE	SCIENTIFIC LANGUAGE		IB LANGUAGE	SCIENTIFIC LANGUAGE
Criterion B: Developing Ideas	ii. present a range of feasible design ideas, which can be correctly interpreted by others iii. present the chosen design and list the reasons for its success iv. develop planning drawing/diagram and list the requirements for the creation of the chosen solution	ii. Background Research - create 3 annotated sketches iii. Hypothesis: sketch the final annotated design and tell why you think it is best iv. Materials - list out the materials needed to create your solar oven	Criterion C: Creating A Solution	ii. demonstrate excellent technical skills for making the solution iii. follow the plan to create the solution, which functions and intended, list changes made to the chosen design and plan when making the solution	ii. Completed your solar oven build iii. Procedure: list out how you built your solar oven, account for any changes made from your drawing to your design.	Criterion D: Evaluating	ii. explain the success of the solution against the design specification iii. describe how the solution could be improved iv. describe the impact of the solution on the client/target audience	ii. Conclusion Part I iii. Conclusion Part II - Extend your thinking - explain how your solar oven can impact every day life
0	Doesn't meet any of the criteria below		0	Doesn't meet any of the criteria below		0	Doesn't meet any of the criteria below	
1-2	ii. presents one design idea, it may be incomplete or not related to the task iii. presents one design idea iv. creates an incomplete planning drawing/diagram	ii. 1-2 sketches, no labeled iii. 1 final sketch, no reason for selection iv. limited list of materials	1-2	ii. demonstrates minimal technical skill which making a solution iii. creates the solution, which functions poorly and is presented in an incomplete format	ii. demonstrates minimal technical skill which making a solution iii. creates the solution, which functions poorly and is presented in an incomplete format	1-2	ii. states the success of the solution iii. identifies one way the solution could be improved	ii. missing more than one major part iii. missing more than one major part
3-4	ii. presents a range of relevant design ideas, which can be correctly interpreted by others iii. presents one design idea which list one reason for its success iv. creates a planning drawing/diagram and lists partial requirements for the creation of the chosen design	ii. 1-2 sketches, partially labeled iii. 1 final sketch, vague reasons for selection iv. partial list of materials	3-4	ii. demonstrates competent technical skill while making the solution iii. creates the solution, which partially functions and is adequately presented	ii. functional solar oven, but limited temperature variance iii. list of steps to build, with minor gaps in procedure	3-4	ii. outlines the success of the solution against the design specification based on relevant product testing iii. lists how the solution could be improved	ii. missing one major part iii. lists multiple ways how the solution could be improved but doesn't explain how it gives more accurate data
5-6	ii. presents a range of design ideas, listing key ideas, which can be correctly interpreted by others iii. presents one chosen design idea which lists multiple reasons for its success iv. creates planning drawing/diagram and lists requirements for the creation of the chosen design	ii. 2 sketches with labels or 3 sketches with partial labels iii. 1 sketch, detailed reason for its selection iv. complete list of building and testing materials	5-6	ii. demonstrates competent technical skills when making the solution iii. creates the solution, which functions as intended and is presented appropriately	ii. functional solar oven that allows for temperature increase iii. complete list of steps to build	5-6	ii. explains the success of the solution against the design specification based on relevant product testing iii. explains one way the solution could be improved	ii. missing minor details iii. explains one detailed improvement with reasoning to how it might give more accurate data
7-8	ii. presents a range of feasible design ideas, with annotation, using appropriate medium(s), which can be interpreted by others iii. presents one chosen design idea which lists multiple reasons for its success and refers back to original design specification iv. creates accurate planning drawing/diagram and lists requirements for the creation of the chosen design that	ii. 3 sketches with labels iii. 1 sketch with detailed reason for selection and explanation how it functions as an alternative to electricity iv. complete list of building and testing materials and their function	7-8	ii. demonstrates excellent technical skills when making the solution iii. follows the plan to create the solution, which functions as intended and is presented appropriately	ii. functional solar oven that allows for temperature increase and incorporates outside materials to increase efficiency iii. complete list of steps to build and test	7-8	ii. explains the success of the solution against the design specification based on authentic product testing iii. explains more than one way the solution could be improved iv. explains the impact of the solution on the client/target audience with more than one additional product	ii. all parts are accurate with detailed explanation iii. more than one improvement explained in detail with reasoning to how it might give more accurate data iv. explains how the solar ovens can impact those without electricity
OVERALL SCORE	Criterion B:		OVERALL SCORE	Criterion C:			Criterion D:	