STEPS: Science Investigation/Project Rubric

Name/Class:

This guide will help you through the STEPS of the Information Process. Your teacher/peers and you will make evaluations throughout. Put your initials at the level or in between the level process indicating what your assessment. You can cross out parts of sentences/ phrases in pencil that don't apply.

SET SCENE: Your Theme/ Topic

Write Main hypothesis/questions here. What are your interested in? How will you plan to carry out your research or investigation? Plan how and to whom you will be presenting (what multiple intelligences will you use?). Some parts of this section will be best filled out after you complete the TARGET step. Read some **simple background information**.

Hypothesis/Topic/Theme/Biggest FAT Question

Get thinking and create some supporting thin & FAT Questions (including questions that are from higher levels of Blooms Taxonomy) that will help you answer your Biggest Question

Evaluate & highlight your level

	Beginner - 2	Some Understanding - 6	Expert - 10
SET SCENE Choose topic Questions: Creation of good investigation questions/hypothesis.	Simple hypothesis with some relevance to theme. Needs lots of adult assistance. Questions are simple.	Simple hypothesis with sufficient relevance to theme. Needs some adult assistance. Most questions are FAT.	Developed hypothesis, identified variables with relevance to theme. Independently creates questions for high level thinking (Blooms) and original answers.

TARGET

Plan how you will reach your target. Use another sheet if there is not enough space. Underline or list your **KEYWORDS**.

Plan / Dates/ Deadlines for Research	Presentation plan
Experiment Design:	
Data collection Design:	

What **sources** will you use? TIPS: Check that you can target the information needed, if not, alter the questions

	Beginner - 2	Some Understanding - 6	Expert - 10
TARGET **Planning, designing, deciding and checking sources.**	Investigation has some relevance to hypothesis. Plan shows some detail, method difficult to replicate. Found 1-2 resources. Data collection method shows some efficiency. Needs lots of assistance from adult.	Investigation design has sufficient relevance to hypothesis, shows reasonable detail and method can be replicated. Found 3-5 resources. Data collection method shows sufficient efficiency. Needed assistance from adult.	Well-constructed investigation relevant to hypothesis. Plan shows excellent detail and method can be replicated. Found resources required. Data collection method is efficient and appropriate. Independent planning.

EXPLORE

Focus on the questions and information required not on making it look great! Take notes. Select from good sources.

	Beginner - 2	Some Understanding - 6	Expert - 10
EXPLORE **Experiment, Locating, Synthesising/ Organising your information to reflect the questions**	Data and Information has some organisation. Some relation of results to "hypothesis". Limited conclusions, inferences and recommendations. Content relates to some questions. Information gathered is mostly unaltered.	Data is recorded and displayed with sufficient organisation. Information gathered shows some use of headings, citation and organisation. Sufficient conclusions, inferences and recommendations. Content has some thinking about the "hypothesis". Some good content responding to questions. Mainly restates others ideas.	Data and information is recorded and displayed, with evidence relating to the hypothesis. Uses headings in a logical manner. Displays original thinking about the "theme" and responds to questions at a high level. Excellent conclusions, inferences and recommendations. Citations correct.

PRESENT

Now focus on making your presentation great. Check spelling, check to see that is clear, don't overuse colour and animations.. make a professional job.

	Beginner - 2	Some Understanding - 6	Expert - 10
Information Presentation	Some thought shown in presentation. Numbers of proofing mistakes or presentation errors.	Displays good use of ICT tools and clear presentation. Some proofing mistakes or presentation errors..	Displays extensive skills in presentation orally, written, and in using ICT. Information is clear and easily seen/heard. Creative.

SO WHAT

Learning Journal: In here write about what you have learned about STEPS (the process you went through), especially note anything you changed on the way or new ideas or skills you feel that you learned.

	Beginner - 2	Some Understanding - 6	Expert -10
Reviewing **Reflecting on your research process.**	Little reflection on how well you've done. Did not change the way you worked. Can create simple mindmap of topic.	Shows some insight into self-reflection. Made some adjustments during process. Can create mindmaps that demonstrate knowledge of topic, with assistance.	Able to accurately reflect on where they are at. Honest and realistic. Made major changes/ adjustments, if required, during process due to evaluation. Can independently create mindmaps that demonstrate topic relationships and understandings.

Check:
- ❑ Have you answered your questions?
- ❑ Have you done your bibliography?
- ❑ Have you highlighted your evaluations?
- ❑ Have you filled out the box to the right?

Project Name:	
Presentation Type:	
Where placed:	

TOTAL
/50

%