

# Semi-Formal Curriculum

#### 1.0 Launching into Science [Benchmark 1 - CG5] 1.1 - Knows things are used in different ways. E.g.. A ball is for rolling, a toy car is for pushing [the world] Not Met Shallow **Emerging** Developing Deepening **Functional** 1.2 - Can collect and interact with natural objects [the world] **Emerging** Shallow Developing Deepening **Functional** Not Met 1.3 -Identifies action words/characters by pointing [the world] Not Met Shallow **Emerging** Developing **Functional** Deepening 1.4 - Recaps familiar phrases (with symbols, pictures or verbally) [the world] Shallow Not Met **Emerging** Developing Deepening **Functional** 1.5 - Can name single properties of a objects using criteria such as texture, smell visual or sound [scientific Shallow Not Met **Emerging** Developing Deepening **Functional** 1.6 - Explores with simple forces- float/ sink [scientific enquiry] Not Met **Shallow Emerging** Developing Deepening **Functional** 1.7 - Explores with simple forces- push/pull [scientific enquiry] Shallow Not Met **Emerging** Developing Deepening **Functional** 1.8 - Explores with simple forces- gravity/ air forces [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 1.9 - Explores with simple forces- magnetism [scientific enquiry] Shallow **Emerging** Developing Deepening **Functional** Not Met 1.10 - Starts to carry out simple tests on materials through exploration – deconstruction [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 1.11 - Starts to carry out simple tests on materials through exploration - heating / cooling [scientific enquiry] Not Met Shallow Developing Deepening **Functional Emerging** 1.12 - Starts to carry out simple tests on materials through exploration - combing in/ separating [scientific enquiry) Not Met Shallow **Functional Emerging** Developing Deepening 1.13 - Starts to carry out simple tests on materials through exploration — mixing [scientific enquiry] Not Met Shallow **Functional Emerging** Developing Deepening 1.14 - Recognise the object depicted in a photographs and colourful pictures [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 1.15 - Understands who and what in simple questions. [attention, understanding, language and communication]





| Not Met   | Shallow | Emerging | Developing | Deepening | Functional |  |  |
|---|---------|----------|------------|-----------|------------|--|--|
|   |         |          |            |           |            |  |  |
| 1.16 - Blanks Level 1 - Naming. Matching objects - find one like this. What can you hear? What did you touch? |         |          |            |           |            |  |  |
| Who is this? (Pointing to object?) Who is this? (pointing to person), What is doing?, Say this ""             |         |          |            |           |            |  |  |
| (Imitation), What did you see? (Remembering items in books? [attention, understanding, language and           |         |          |            |           |            |  |  |
| communication]  |         |          |            |           |            |  |  |
| Not Met   | Shallow | Emerging | Developing | Deepening | Functional |  |  |
|   |         |          |            |           |            |  |  |
| Vocabulary: hear, smell, feel, see, who what, float, sink, push, pull, mix, hot, cold                         |         |          |            |           |            |  |  |



#### Semi-Formal Curriculum 2.0 Launching into Science [Benchmark 2 - CG6] 2.1 - Has awareness of environment around themselves [the world] **Shallow** Not Met **Emerging** Developing Deepening **Functional** 2.2 - Can transition between areas [the world] **Emerging** Not Met Shallow Developing Deepening **Functional** 2.3 - Can match identical photos and pictures [the world] Not Met Shallow **Emerging** Developing **Functional** Deepening 2.4 - Starts to carry out simple tests on objects and can comment on differences - Loud / quiet [scientific enquiry] **Shallow** Not Met **Emerging** Developing Deepening **Functional** 2.5 - Starts to carry out simple tests on objects and can comment on differences - Fast / slow [scientific enquiry] Shallow **Emerging Functional** Not Met Developing Deepening 2.6 - Starts to carry out simple tests on objects and can comment on differences -Big/ small [scientific enquiry] Not Met Shallow Developing **Functional Emerging** Deepening 2.7 - Starts to carry out simple tests on objects and can comment on differences - heavy /light [scientific enquiry) Not Met Shallow **Emerging** Developing Deepening **Functional** 2.8 - Choose to use a physical process for a specific result - push/ pull [scientific enquiry] Shallow **Functional** Not Met **Emerging** Developing Deepening 2.9 - Choose to use a physical process for a specific result - wet/ dry [scientific enquiry] Not Met Shallow **Functional Emerging** Developing Deepening 2.10 - Choose to use a physical process for a specific result - heat/cool [scientific enquiry] Not Met **Shallow Functional** Emerging Developing Deepening 2.11 - Explore and comment on plants and animals using a range of senses [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 2.12 - Understands where in simple questions. [attention, understanding, language and communication] Not Met Shallow **Emerging** Developing Deepening **Functional** 2.13 - Blanks Level 1 - Naming. Matching objects - find one like this. What can you hear? What did you touch? Who is this? (Pointing to object?) Who is this? (pointing to person), What is doing?, Say this " (Imitation), What did you see? (Remembering items in books? [attention, understanding, language and communication] **Emerging** Not Met **Shallow** Developing **Functional** Deepening Vocabulary: match, loud, quiet, fast, slow, big, small, heavy light, heat, cool, push, pull, plants, animals



#### Semi-Formal Curriculum 3.0 Launching into Science [Benchmark 3 – CG7] 3.1 - Can move around familiar environment and find areas in school, home and local community [the world] Not Met Shallow **Emerging** Developing Deepening **Functional** 3.2 - Can identify sounds in the environment [the world] Not Met Shallow **Emerging** Developing **Functional** Deepening 3.3 - Lift meaning from a stationary picture and work out the activity e.g. "What is he doing?", "What is happening?" [scientific enquiry] Shallow Not Met **Emerging** Developing Deepening **Functional** 3.4 - Shows awareness of a range of consistent changes to materials under the effect of physical processesmelting / freezing [scientific enquiry] Not Met Shallow Emerging Developing Deepening Functional 3.5 - Shows awareness of a range of consistent changes to materials under the effect of physical processes-Heating/cooling [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 3.6 - Select a familiar object by function if the simplest verb is used e.g. give me the one you eat with? [attention, understanding, language and communication] Shallow Not Met **Emerging** Developing Deepening **Functional** 3.7 - Blanks Level 1 - Naming. Matching objects - find one like this. What can you hear? What did you touch? Who is this? (Pointing to object?) Who is this? (pointing to person), What is doing?, Say this " (Imitation), What did you see? (Remembering items in books? [attention, understanding, language and communication] Not Met Shallow Developing **Functional** Emerging Deepening Vocabulary: environment, home, school, travel, find, local community, where, what, melting, cooling, freezing,

heating, hot, cold



#### Semi-Formal Curriculum 4.0 Launching into Science [Benchmark 4 – CG7] 4.1 - Notice and comment on one difference between plants / animals using pictures [the world] Not Met Shallow **Emerging** Developing Deepening **Functional** 4.2 - Notice and comment on one difference between plants / animals in real life [the world] Not Met Shallow **Emerging** Developing Deepening **Functional** 4.3 - Can name different rooms in their environment e.g.. School, home [the world] Not Met Shallow **Emerging** Developing Deepening **Functional** 4.4 - Shows care and concern for living things and environmental care- plants [the world] Not Met Shallow **Emerging** Developing Deepening **Functional** 4.5 - Use simple scientific equipment practically - magnifying glass [scientific enquiry] Shallow Not Met **Emerging** Developing Deepening **Functional** 4.6 - Use simple scientific equipment practically - magnets [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 4.7 - Use simple scientific equipment practically – electricity [scientific enquiry] Not Met **Shallow Emerging** Developing Deepening **Functional** 4.8 - Use simple scientific equipment practically - recording device e.g.. Stopwatch [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 4.9 - Repeats an action in order to test result [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 4.10 - Responds to instructions involving 2 part sequence in a range of familiar contexts. [attention, understanding, language and communication] Shallow Not Met **Emerging** Developing Deepening **Functional** 4.11 - Blanks Level 2 - Describing. What happened? Who/what/where is \_\_\_\_? (remembering information?. Describe characteristics of objects: what size/shape/colour is it? How does it taste/smell/feel?. Identifying object functions: show me the one we use for \_\_\_\_. How are these different? Tell me something that is a type of (Naming object from category) [attention, understanding, language and communication] Not Met Shallow **Functional Emerging** Developing Deepening

**Vocabulary:** same, different, water, soil, roots, grow, sunlight, magnifying glass, bigger, smaller, magnetic, sticks, attract, repel, stopwatch, start, stop, electrical, electricity, wires, bulb, battery, repeat, test



#### Semi-Formal Curriculum 5.0 Launching into Science [Benchmark 5 – CG8] 5.1 - Comments on aspects of their familiar world such as the place where they live [the world] Not Met Shallow **Emerging** Developing Deepening **Functional** 5.2 - Comments on aspects of the natural world [the world] **Emerging** Not Met Shallow Developing **Functional** Deepening 5.3 - Shows care and concern for living things and environmental care- animals [the world] Not Met Shallow **Emerging** Developing Deepening **Functional** 5.4 - Shows care and concern for living things and environmental care- environmental [the world] **Emerging Functional** Not Met Shallow Developing Deepening 5.5 - Investigate with simple electrical components - wires/ lightbulbs [scientific enquiry] **Functional** Not Met Shallow **Emerging** Developing Deepening 5.6 - Investigate with simple electrical components - fan/motor [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 5.7 - Investigate with simple electrical components - battery/ buzzer [scientific enquiry] Not Met **Shallow Emerging** Developing Deepening **Functional** 5.8 - Makes comments on the results of their actions [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 5.9 - Shows an understanding of prepositions of under, on top, behind in play and structured situations. [attention, understanding, language and communication] Shallow Not Met **Emerging** Developing Deepening **Functional** 5.10 - Blanks Level 2 - Describing. What happened? Who/what/where is ? (remembering information?. Describe characteristics of objects: what size/shape/colour is it? How does it taste/smell/feel?. Identifying object functions: show me the one we use for \_\_\_\_. How are these different? Tell me something that is a type (Naming object from category) [attention, understanding, language and communication] of

**Vocabulary:** where, natural, weather, seasons, light, dark, cold, hot, gentle touch, noise, recycling, litter, wires, lightbulbs, fan, motor, battery, buzzer, cause, effect

Developing

Deepening

**Functional** 

**Emerging** 

Not Met

Shallow



#### Semi-Formal Curriculum 6.0 Launching into Science [Benchmark 6 - CG8] 6.1 - Sort plants, animals and objects by criteria- habitat [the world] Not Met Shallow **Emerging** Developing Deepening **Functional** 6.2 - Sort plants, animals and objects by criteria—size [the world] **Emerging** Not Met Shallow Developing Deepening **Functional** 6.3 - Sort plants, animals and objects by criteria- type [the world] Not Met Shallow **Emerging** Developing Deepening **Functional** 6.4 - Compare and contrasts results- more/less than [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 6.5 - Compare and contrasts results- faster/ slower [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 6.6 - Compare and contrasts results-wet/dry [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 6.7 - Can sort objects into groups based on scientific attributes - float/ sink [scientific enquiry] Not Met **Shallow Emerging** Developing Deepening **Functional** 6.8 - Can sort objects into groups based on scientific attributes - magnetic / non magnetic [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 6.9 - Focusing attention - still listen or do but can shift own attention. [attention, understanding, language and communication] Shallow Not Met **Emerging** Developing Deepening **Functional** 6.10 - Blanks Level 2 - Describing. What happened? Who/what/where is ? (remembering information?. Describe characteristics of objects: what size/shape/colour is it? How does it taste/smell/feel?. Identifying object functions: show me the one we use for \_\_\_\_. How are these different? Tell me something that is a type (Naming object from category) [attention, understanding, language and communication] of Not Met Shallow **Emerging** Developing Deepening **Functional** Vocabulary: sort, plants, animals, objects, criteria, small, medium, large, more than, less than, compare,

faster, slower, wet, dry, float, sink, magnetic, nonmagnetic,



# Semi-Formal Curriculum

| 7.0 Launching into Science [Benchmark 7 – 9]  |  |                                   |                       |                                       |               |  |  |
|---|--|-----------------------------------|-----------------------|---------------------------------------|---------------|--|--|
|   |  |                                   |                       |                                       |               |  |  |
| 7.1 - Ask questions about aspects of their familiar world such as the place where they live or the natural world - in school [the world]  |  |                                   |                       |                                       |               |  |  |
| Not Met   | Shallow  | Emerging                          | Developing            | Deepening                             | Functional    |  |  |
|   |  |                                   |                       |                                       |               |  |  |
| 7.2 - Ask questions about aspects of their familiar world such as the place where they live or the natural world-in the community [the world]   |  |                                   |                       |                                       |               |  |  |
| Not Met   | Shallow  | Emerging                          | Developing            | Deepening                             | Functional    |  |  |
|   |  |                                   |                       |                                       |               |  |  |
| 7.3 - Ask questions   | 7.3 - Ask questions about aspects of their familiar world such as the place where they live or the natural world - at home [the world] |                                   |                       |                                       |               |  |  |
| Not Met   | Shallow  | Emerging                          | Developing            | Deepening                             | Functional    |  |  |
|   |  |                                   |                       |                                       |               |  |  |
| 7.4 - Comme   | nts on light and sha   | adow in an investig               | ation - proximity/ c  | omparison [scienti                    | fic enquiry]  |  |  |
| Not Met   | Shallow  | Emerging                          | Developing            | Deepening                             | Functional    |  |  |
|   |  |                                   |                       |                                       |               |  |  |
| 7.5 - Comme   | nts on light and sha   | dow in an investiga               | ation - investigate v | vith objects [scient                  | ific enquiry] |  |  |
| Not Met   | Shallow  | Emerging                          | Developing            | Deepening                             | Functional    |  |  |
|   |  |                                   |                       |                                       |               |  |  |
| 7.6 - Comm  |  | nadow in an investig              | gation - transparen   | t/ opaque [scientifi                  | . , , -       |  |  |
| Not Met   | Shallow  | Emerging                          | Developing            | Deepening                             | Functional    |  |  |
|   |  |                                   |                       |                                       |               |  |  |
|   | •  |                                   | to find things out [s | · · · · · · · · · · · · · · · · · · · | Γ             |  |  |
| Not Met   | Shallow  | Emerging                          | Developing            | Deepening                             | Functional    |  |  |
| 7.0   | Decilale a sincelle si   | and the state of the last and the | h fa / at a           | [                                     | .1            |  |  |
|   | •  |                                   | , buzzer, fan/ moto   | <u> </u>                              |               |  |  |
| Not Met   | Shallow  | Emerging                          | Developing            | Deepening                             | Functional    |  |  |
| 7 9 -   | Makes a simple pro   | edication when ren                | eating an experime    | ent (scientific enqui                 | irvl          |  |  |
| Not Met   | Shallow  | Emerging                          | Developing            | Deepening                             | Functional    |  |  |
| NOTIVICE  | Silanow  | Lineiging                         | Developing            | Всерення                              | Turictional   |  |  |
| 7.10 - Listen to ideas expressed by other familiar people. [attention, understanding, language and communication]   |  |                                   |                       |                                       |               |  |  |
| Not Met   | Shallow  | Emerging                          | Developing            | Deepening                             | Functional    |  |  |
|   |  |                                   |                       |                                       |               |  |  |
| 7.11 - Blanks Level 3 - Re-telling. What will happen next? What is a? (definition). Find one to use with this.  |  |                                   |                       |                                       |               |  |  |
| Find the things that are not What could he say? (Assuming the role of another person) How are these the same? (Identifying similarities) [attention, understanding, language and communication] |  |                                   |                       |                                       |               |  |  |
| Not Met   | Shallow  | Emerging                          | Developing            | Deepening                             | Functional    |  |  |
|   |  |                                   |                       |                                       |               |  |  |
| Vocabulary: light, shadow, light, dark, transparent, opaque, how, investigate, prediction   |  |                                   |                       |                                       |               |  |  |
| ,   |  |                                   |                       |                                       |               |  |  |



#### Semi-Formal Curriculum 8.0 Launching into Science [Benchmark 8 - CG9] 8.1 - Developing an understanding of growth, decay and changes over time in animals [the world] Shallow Not Met **Emerging** Developing Deepening **Functional** 8.2 - Developing an understanding of growth, decay and changes over time in plants [the world] **Emerging** Not Met Shallow Developing Deepening **Functional** 8.3 - Developing an understanding of growth, decay and changes over time in humans and objects [the world] Not Met **Shallow Emerging** Developing Deepening **Functional** 8.4 - Collects objects and tools for specific purposes- cooking/ cutting / heating/cooling/ melting / freezing / pushing / pulling [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 8.5 - Comments on light and shadow in an investigation - proximity/ comparison [scientific enquiry] Not Met Shallow Emerging Developing Deepening **Functional** 8.6 - Listen and respond to ideas and discussions with familiar/unfamiliar people. [attention, understanding, language and communication] Shallow Not Met **Emerging** Developing Deepening **Functional** 8.7 - Blanks Level 3 - Re-telling. What will happen next? What is a \_\_\_\_ ? (definition). Find one to use with this. Find the things that are not \_\_\_\_\_. What could he say? (Assuming the role of another person) How are these the same? (Identifying similarities) [attention, understanding, language and communication] Not Met Shallow Developing **Emerging** Deepening **Functional**

Vocabulary: growth, decay, cooking, cutting, heating, cooling, melting, freezing, pushing, pulling





#### Semi-Formal Curriculum 9.0 Launching into Science [Benchmark 9 - CG 9/10] 9.1 - Communicates why things happen and how things work [the world] Not Met Shallow **Emerging** Developing Deepening **Functional** 9.2 - Identify objects made by a range of different materials - plastic/ metal/ wood [scientific enquiry] **Emerging** Not Met Shallow Developing Deepening **Functional** 9.3 - Uses simple scientific terminology during construction [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 9.4 - Uses simple scientific terminology during cooking [scientific enquiry] Shallow Developing Not Met **Emerging** Deepening **Functional** 9.5 - Uses simple scientific terminology during exploring transport / vehicle toys [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 9.6 - Collects and records data- measuring equipment [scientific enquiry] Not Met Shallow **Emerging** Developing Deepening **Functional** 9.7 - Listen and respond to ideas in discussions in structured situations and play situations with familiar and unfamiliar people. [attention, understanding, language and communication] Shallow Developing Not Met **Emerging** Deepening **Functional** 9.8 - Blanks Level 4: Justifying. What will happen if ? (predicting). Why did ? (justifying cause of event) What could \_\_\_\_\_ do/use? (solution), Why could \_\_\_\_ do that/use that? (Explaining means to goal). Why can't we \_\_\_\_\_? (Explaining obstacle to solution). Why is \_\_\_\_\_ made of \_\_\_\_\_? (Explaining construction of objects). [attention, understanding, language and communication] Shallow Not Met Emerging Developing Deepening **Functional**

**Vocabulary:** change, old, young, wilted, plastic, metal, wood, materials, construction, rough, smooth, transport, vehicle, collect, data, record





# Semi-Formal Curriculum

| 10.0 Launching into Science [Benchmark 10 – CG10 / NC1]   |                  |                       |                       |                       |            |  |  |
|---|------------------|-----------------------|-----------------------|-----------------------|------------|--|--|
|   |                  |                       |                       |                       |            |  |  |
| 10.1 - Communicate similarities difference and patterns [the world]   |                  |                       |                       |                       |            |  |  |
| Not Met   | Shallow          | Emerging              | Developing            | Deepening             | Functional |  |  |
|   |                  |                       |                       |                       |            |  |  |
| 10.2 - Moves around a course using directional language [[the world]  |                  |                       |                       |                       |            |  |  |
| Not Met   | Shallow          | Emerging              | Developing            | Deepening             | Functional |  |  |
|   |                  |                       |                       |                       |            |  |  |
|   | 10.3 - Can ident | ify variables that co | ould be changed [so   | cientific enquiry]    |            |  |  |
| Not Met   | Shallow          | Emerging              | Developing            | Deepening             | Functional |  |  |
|   |                  |                       |                       |                       |            |  |  |
|   | 10.4 - Makes a   | a prediction in a ne  | w experiment [scie    | ntific enquiry]       |            |  |  |
| Not Met   | Shallow          | Emerging              | Developing            | Deepening             | Functional |  |  |
|   |                  |                       |                       |                       |            |  |  |
|   | 10.5 - De        | cide what results t   | o collect [scientific | enquiry]              |            |  |  |
| Not Met   | Shallow          | Emerging              | Developing            | Deepening             | Functional |  |  |
|   |                  |                       |                       |                       |            |  |  |
| 1   |                  | ecords data- record   | ing table- tally cha  | rt [scientific enquir | <u>y]</u>  |  |  |
| Not Met   | Shallow          | Emerging              | Developing            | Deepening             | Functional |  |  |
|   |                  |                       |                       |                       |            |  |  |
|   | 10.7 - Collects  | and records data- r   | ecording table [sci   | entific enquiry]      |            |  |  |
| Not Met   | Shallow          | Emerging              | Developing            | Deepening             | Functional |  |  |
|   |                  |                       |                       |                       |            |  |  |
|   | •                |                       |                       | and play situations v |            |  |  |
| unfamiliar people. [attention, understanding, language and communication]   |                  |                       |                       |                       |            |  |  |
| Not Met   | Shallow          | Emerging              | Developing            | Deepening             | Functional |  |  |
|   |                  |                       |                       |                       |            |  |  |
| 10.9 - Blanks Level 4: Justifying. What will happen if? (predicting). Why did? (justifying cause of   |                  |                       |                       |                       |            |  |  |
| event) What could do/use? (solution), Why could do that/use that? (Explaining means to goal).   |                  |                       |                       |                       |            |  |  |
| Why can't we? (Explaining obstacle to solution). Why is made of? (Explaining construction of objects). [attention, understanding, language and communication] |                  |                       |                       |                       |            |  |  |
| Not Met   | Shallow          |                       | Developing            | Deepening             | Functional |  |  |
| NOT MET   | Silaliow         | Emerging              | Developing            | Deepering             | runctional |  |  |
| Vocabulary: similar, different, forwards, backwards, left, right, stationary, changed, variables, chart, graph,   |                  |                       |                       |                       |            |  |  |
| Vocabulary, Shimar, americine, for wards, backwards, lett, fight, stationary, changes, variables, chart, graph,   |                  |                       |                       |                       |            |  |  |

**Vocabulary:** similar, different, forwards, backwards, left, right, stationary, changed, variables, chart, graph table