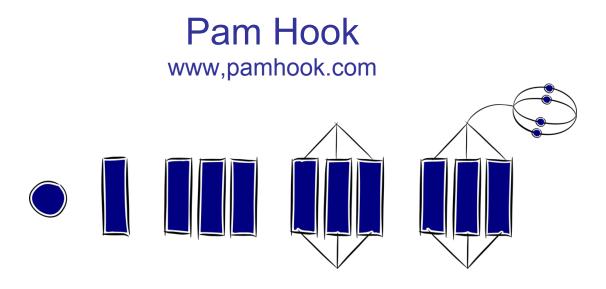
SOLO Taxonomy and Writing Learning Intentions





Writing Learning Intentions.

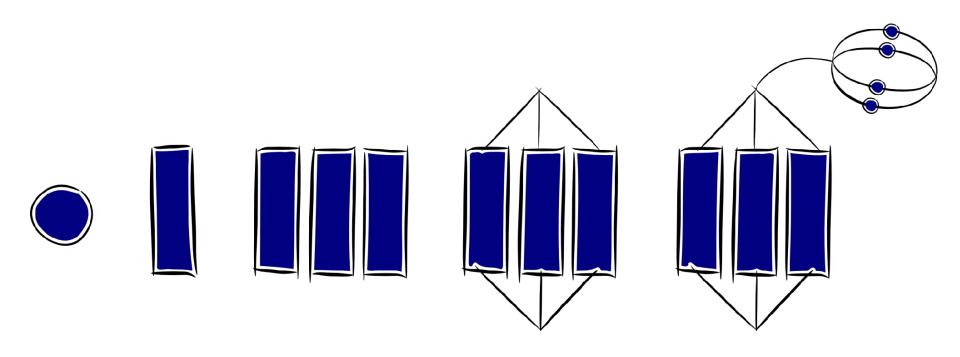




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Using SOLO Taxonomy coded HOT Maps as task descriptors

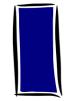
SOLO Taxonomy - Biggs and Collis 1982 The Structure of Observed Learning Outcomes

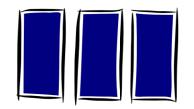




SOLO Taxonomy and HOT Maps and Self assessment Rubrics

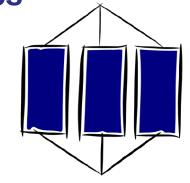


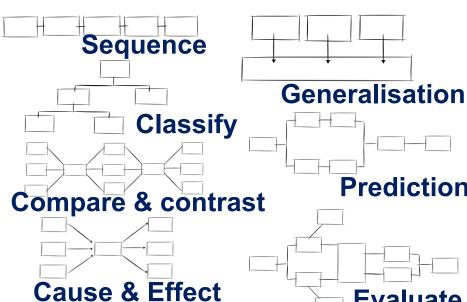
















Prediction

Evaluate

Analysis

NZC: Essence Statement Science

In science, students explore how both the natural physical world and science itself work so that they can participate as critical, informed, and responsible citizens in a society in which science plays a significant role.

Example
Achievement
Objective

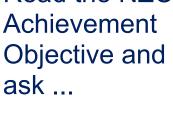
NZC: Achievement Objective Material World Level One Properties and changes of matter

- Observe, describe, and compare physical and chemical properties of common materials and changes that occur when materials are mixed, heated, or cooled.



Writing Learning Intentions:

Read the NZC







What can be defined?

[SOLO multistructural LO]



HOT DEFINE Map and rubric

Science Material World Level One Properties and changes of matter

- Observe, describe, and compare physical and chemical properties of common materials and changes that occur when materials are mixed, heated, or cooled.

Learning Intentions

Define properties
Define physical properties
Define chemical properties
Define materials
Define common material
Define mixing/heating/coolingt.

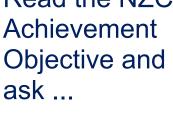
HOT SOLO Multistructural Maps: define, describe,

HOT SOLO Relational Maps: sequence, classify, compare and contrast, causal explanation, analysis, analogy,

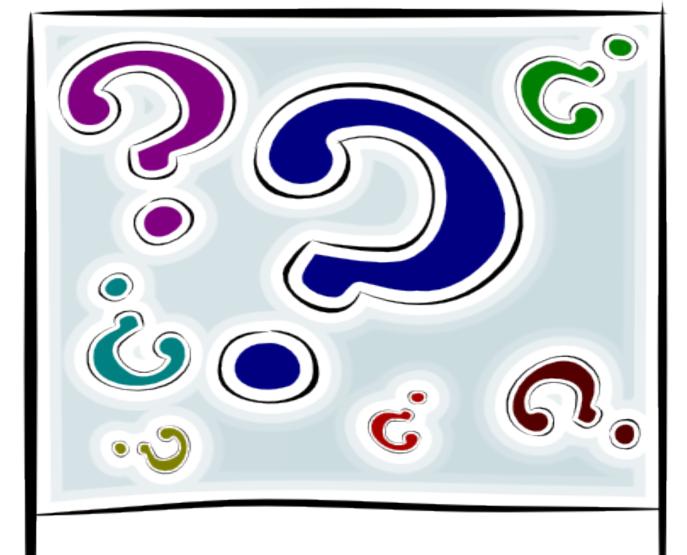


Writing Learning Intentions:

Read the NZC







What can be described?

[SOLO multistructural LO]



Science Material World Level One Properties and changes of matter

- Observe, describe, and compare physical and chemical properties of common materials and changes that occur when materials are mixed, heated, or cooled.

Learning Intentions

Describe common materials **Describe** physical properties of common materials

Describe chemical properties of common materials.

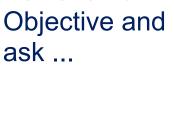
HOT SOLO Multistructural Maps: define, describe,

HOT SOLO Relational Maps: sequence, classify, compare and contrast, causal explanation, analysis, analogy,

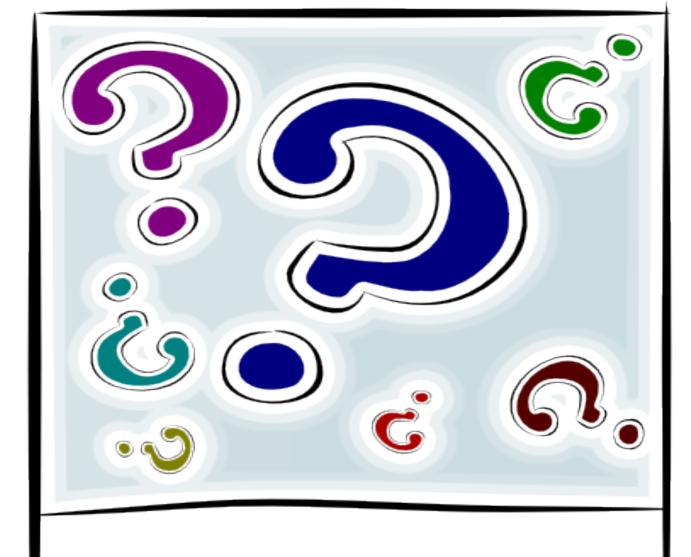


Writing Learning Intentions:

Read the NZC Achievement







What can be sequenced?

[SOLO relational LO]



HOT SEQUENCE Map and rubric

Science Material World Level One Properties and changes of matter

- Observe, describe, and compare physical and chemical properties of common materials and changes that occur when materials are mixed, heated, or cooled.

Learning Intentions

Sequence the changes when common materials are mixed [heated or cooled].

HOT SOLO Multistructural Maps: define, describe,

HOT SOLO Relational Maps: sequence, classify, compare and contrast, causal explanation, analysis, analogy,



Writing Learning Intentions:

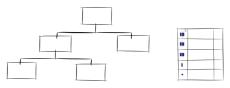
Read the NZC Achievement Objective and ask ...





What can be classified?

[SOLO relational LO]



HOT CLASSIFY Map and rubric

Science Material World Level One Properties and changes of matter

- Observe, describe, and compare physical and chemical properties of common materials and changes that occur when materials are mixed, heated, or cooled.

Learning Intentions

Classify the properties of common materials.

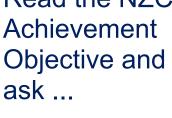
HOT SOLO Multistructural Maps: define, describe,

HOT SOLO Relational Maps: sequence, classify, compare and contrast, causal explanation, analysis, analogy,

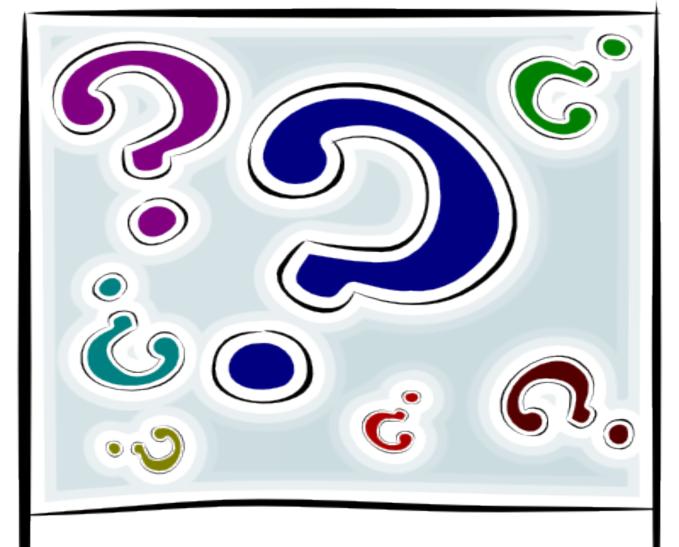


Writing Learning Intentions:

Read the NZC

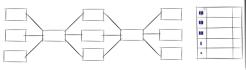






What can be compared?

[SOLO relational LO]



HOT COMPARE CONTRAST Map and rubric

Science Material World Level One Properties and changes of matter

- Observe, describe, and compare physical and chemical properties of common materials and changes that occur when materials are mixed, heated, or cooled.

Learning Intentions

Compare & contrast physical and chemical properties of common materials. Compare & contrast the changes that occur when common materials are mixed [heated or cooled].

HOT SOLO Multistructural Maps: define, describe,

HOT SOLO Relational Maps: sequence, classify, compare and contrast, causal explanation, analysis, analogy,



Writing Learning Intentions:

Read the NZC Achievement Objective and ask ...





What can be explained?

[SOLO relational LO]



HOT CAUSAL EXPLANATION

Map and rubric

Science Material World Level One Properties and changes of matter

- Observe, describe, and compare physical and chemical properties of common materials and changes that occur when materials are mixed, heated, or cooled.

Learning Intentions

Explain the causes of the changes that occur when common materials are mixed [heated or cooled]

HOT SOLO Multistructural Maps: define, describe,

HOT SOLO Relational Maps: sequence, classify, compare and contrast, causal explanation, analysis, analogy,



Writing Learning Intentions:

Read the NZC Achievement Objective and ask ...



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What can be predicted?

[SOLO extended abstract LO]



Science Material World Level One Properties and changes of matter

- Observe, describe, and compare physical and chemical properties of common materials and changes that occur when materials are mixed, heated, or cooled.

Learning Intentions

Predict what might happen when common materials are mixed [heated or cooled]

HOT SOLO Multistructural Maps: define, describe,

HOT SOLO Relational Maps: sequence, classify, compare and contrast, causal explanation, analysis, analogy,



Writing Learning Intentions and Success Criteria:

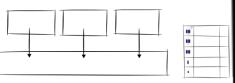
Read the NZC Achievement Objective and ask ...





What can be generalised?

[SOLO extended abstract LO]



HOT GENERALISE Map and rubric

Science Material World Level One Properties and changes of matter

- Observe, describe, and compare physical and chemical properties of common materials and changes that occur when materials are mixed, heated, or cooled.

Learning Intentions

Generalise about the changes that occur when common materials are mixed [heated or cooled]

HOT SOLO Multistructural Maps: define, describe,

HOT SOLO Relational Maps: sequence, classify, compare and contrast, causal explanation, analysis, analogy,



Writing Learning Intentions.





Using SOLO Taxonomy coded HOT Maps as task descriptors

Science Material World Level One Properties and changes of matter

- Observe, describe, and compare physical and chemical properties of common materials and changes that occur when materials are mixed, heated, or cooled.



Learning Intentions

A pick 'n mix of

intentions

possible learning

Define properties

Define physical properties

Define chemical properties

Define materials

Define common material

Define mixture/ heat.

Describe common materials

Describe physical properties of common materials **Describe** chemical properties of common materials.

Sequence the changes when common materials are mixed [heated or cooled].

Classify the properties of common materials.

Compare & contrast physical and chemical properties of common materials.

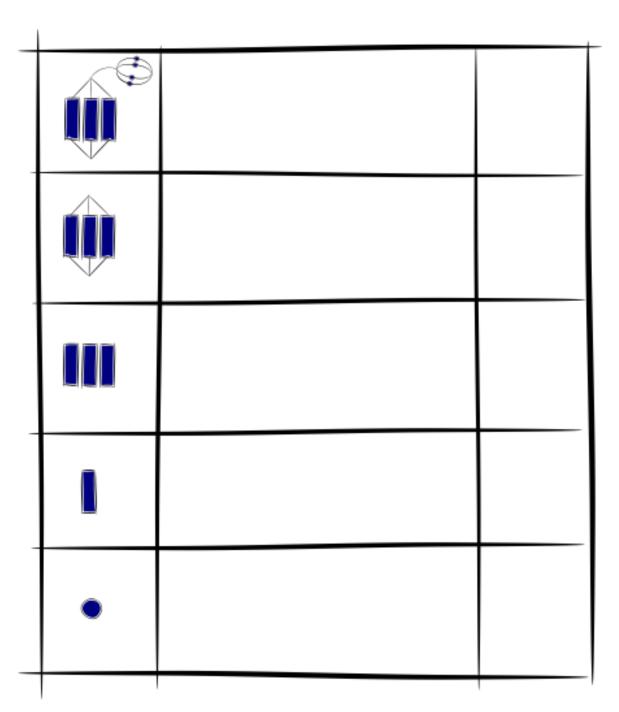
Compare & contrast the changes that occur when common materials are mixed [heated or cooled].

Explain the causes of the changes that occur when common materials are mixed [heated or cooled]

Predict what might happen when common materials are mixed [heated or cooled]

Generalise about the changes that occur when common materials are mixed [heated or cooled]

Use self
assessment
rubrics built
against HOT Maps
to create Success
Criteria for each
Learning Intention
selected.







transforming learning outcomes

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