Concept Maps

PER Session 1, ITW2019
What are concept maps?
What are concept maps?

Concept Map
What are concept maps?

Concept Map

is

Graphic Organiser
What are concept maps?

Concept Map

is

Graphic Organiser

represent

Organised Knowledge
What are concept maps?

Concept Map

is

Graphic Organiser

represent

Organised Knowledge

is comprised of

Key Concepts
What are concept maps?

- Concept Map
  - Graphic Organiser
    - represent
  - Organised Knowledge
    - is comprised of
  - Key Concepts
  - Linking words
What are concept maps?

- Concept Map
  - Graphic Organiser
    - represent
  - Organised Knowledge
    - is comprised of
  - Key Concepts
    - are in
  - Linking words
    - is
  - Hierarchical Structure
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is

represented

is comprised of

connected with

are in

is

edg.

is

consist of

contribute
What are concept maps?

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Focus Question

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Linking words

Hierarchical Structure

is

starts with

represent

e.g.

is comprised of

consistent of

is

connected with

contribute

are in

contribute

is comprised of

is
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is comprised of

e.g.

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are in
What are concept maps?

- Concept Map
  - Graphic Organiser
  - Focus Question
  - Organised Knowledge
    - Key Concepts
    - Linking words
  - Hierarchical Structure

- Linking words: is, consists of, contribute, etc.
- Key Concepts: are in, is comprised of, needed to answer, etc.
- Organised Knowledge: starts with, represents, needed to answer, etc.
- Focus Question: starts with, needed to answer, etc.
- Graphic Organiser: represents, needed to answer, etc.
- Concept Map: starts with, needed to answer, etc.
Constructing concept maps
Constructing concept maps

1. Focus question (e.g. What is a plant?)
Constructing concept maps

1. Focus question (e.g. What is a plant?)
2. Three to five key concepts
Constructing concept maps

1. Focus question (e.g. What is a plant?)
2. Three to five key concepts

- Plant
- Roots
- Flower
- Leaves
- Sun
Constructing concept maps

1. Focus question (e.g. What is a plant?)
2. Three to five key concepts
3. Connect with arrowed lines and linking words
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1. Focus question (e.g. What is a plant?)
2. Three to five key concepts
3. Connect with arrowed lines and linking words

- Plant
  - Roots
  - Leaves
  - Sun
  - Flower

- Plant has Roots
- Plant has Leaves
- Plant has needs Sun
- Plant has Flower
Constructing concept maps

1. Focus question (e.g. What is a plant?)
2. Three to five key concepts
3. Connect with arrowed lines and linking words
4. Expand

- Plant
  - Roots
  - Leaves
  - Sun
  - Flower

- Plant has Roots
- Plant has Leaves
- Plant has Sun
- Plant needs Sun
Constructing concept maps

1. Focus question (e.g. What is a plant?)
2. Three to five key concepts
3. Connect with arrowed lines and linking words
4. Expand

- Plant
  - Roots
    - find
  - Water
  - Leaves
  - Sun
  - Flower
    - can be
    - Yellow
  - Green
    - are
  - Sun
    - needs
Constructing concept maps

1. Focus question (e.g. What is a plant?)
2. Three to five key concepts
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4. Expand

Plant
- Roots
  - find
- Flower
  - can be
- Water
  - need
- Leaves
  - need
- Sun
  - is
- Yellow
- Green
  - are

Plant has Roots
Plant has Flowers
Plant has Water
Plant has Leaves
Plant needs Sun
Plant needs Green
I need your help!
I need your help!

Before you start, please answer the three questions on the top right.
I need your help!

Before you start, please answer the three questions on the top right.

<table>
<thead>
<tr>
<th>1. PERSONAL CODE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>First letter of your first name</td>
<td>(e.g. Colin = C)</td>
</tr>
<tr>
<td>Second letter of your mother’s first name</td>
<td>(e.g. Kathy = A)</td>
</tr>
<tr>
<td>Third letter of your mother’s first name</td>
<td>(e.g. Kathy = T)</td>
</tr>
<tr>
<td>Last digit of your year of birth</td>
<td>(e.g. 1964 = 4)</td>
</tr>
</tbody>
</table>
I need your help!

Before you start, please answer the three questions on the top right.

1. **PERSONAL CODE**
   - First letter of your first name: (e.g. Colin = C)
   - Second letter of your mother’s first name: (e.g. Kathy = A)
   - Third letter of your mother’s first name: (e.g. Kathy = T)
   - Last digit of your year of birth: (e.g. 1964 = 4)

2. How would you rate your English skills?
   - Good
   - Very good
   - Excellent
I need your help!

Before you start, please answer the three questions on the top right.

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<th>2. How would you rate your English skills?</th>
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<td>Good</td>
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</tr>
<tr>
<td>Very good</td>
<td></td>
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<tr>
<td>Excellent</td>
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<th>3. Is particle physics featured in your current curriculum?</th>
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<tr>
<td>Not at all</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Extremely</td>
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What would you like your students to know about CERN and particle physics?
What would you like your students to know about CERN and particle physics?
What would you like your students to know about CERN and particle physics?

1. Focus question
2. Three to five key concepts
3. Connect with arrowed lines and linking words
4. Expand
What would you like your students to know about CERN and particle physics?

1. Focus question
2. Three to five key concepts
3. Connect with arrowed lines and linking words
4. Expand

- Plant
  - Roots (has)
  - Water (need)
  - Leaves (need)
  - Sun (is)

- Green
  - are

- Flower
  - has
  - needs
  - can be
Thank you for your participation!
cern.ch/anjakranjchorvat