

Scenario Script

The scenario will need 3 hours. Teacher could adapt the activities (order and number) according to the deeper study of the scenario. Some activities could be done and not others (for example, I propose to do at home the activities about the videos, it is optional). The same for the activities proposed to do at home (scale-up). Activities can be done in groups (pairs ) or individual . Teacher could propose the way of work. In case teacher wants to follow the entire scenario, the activities proposed for each session will be the below: *(More information in "script-Teaching materials")*

1st teaching period

1st Activity:

Activity number: -

Time: 5'

Type of activity: Speaking activity. Introducing the topic (Heat)

Class organisation: The entire group.

Actions/Tasks: Teacher introduces the topic. Discuss about the topic with the entire group.

2nd Activity:

Activity number: -

Time: 5'

Type of activity: Read/Explain introductory text. Teacher solving doubts.

Class organisation: Read individually or with the entire group.

Actions/Tasks: Reading and solving doubts. Possible discussion.

3rd Activity:

Activity number: "Previous activity"

Time: 20'

Type of activity: Multiple choice activity. Self-assessment activity. Test activity to know the previous knowledge of each student.

Class organisation: Individually.

Actions/Tasks: Students have to answer the multiple choice activity, and self-assess their answers.

4th Activity:

Activity number: Activity 1

Time: 15'

Type of activity: Read and explain the text "Heat", and write definitions.

Class organisation: In pairs (optional individually).

Actions/Tasks: Reading/explaining the text and solving doubts. Write the definitions proposed (appear in the text).

5th Activity:

Activity number: Activity 2

Time: 5'

Type of activity: Calculate activity (transform units).

Class organisation: In pairs (optional individually).

Actions/Tasks: Students have to transform some heat units in others.

6th Activity:

Activity number: -

Time: 10'

Type of activity: Summarizing activity.

Class organisation: The entire group.

Actions/Tasks: Teacher summarizes the contents learnt the first teaching period. Solving doubts. Possible discussion.

2nd teaching period

1st Activity:

Activity number: -

Time: 5'

Type of activity: Review activity.

Class organisation: The entire group.

Actions/Tasks: Teacher should review the contents learnt the previous day. Solving doubts. Possible discussion.

2nd Activity:

Activity number: -

Time: 10'

Type of activity: Reading/explaining activity.

Class organisation: The entire group.

Actions/Tasks: Read (students) or explain (teacher) the text "Temperature scales". Solving doubts. Possible discussion.

3rd Activity:

Activity number: Activity 3

Time: 10'

Type of activity: Underlining or coping activity.

Class organisation: In pairs (optional individually).

Actions/Tasks: Students have to underline with different colours all the information about the different temperature scales. Alternatively, students can copy all the equations that allow to transform one temperature scale into another one.

4th Activity:

Activity number: Activity 4

Time: 5'

Type of activity: Calculating activity.

Class organisation: In pairs (optional individually).

Actions/Tasks: Students have to transform two temperature scales into another.

5th Activity:

Activity number: Activity 5

Time: 10'

Type of activity: Matching/multiple choice activity. Calculating activity.

Class organisation: In groups of pairs or in pairs.

Actions/Tasks: Students have to match each temperature with the correct picture. Recommended to express all in the Celsius scale.

6th Activity:

Activity number: Activity 6

Time: 10'

Type of activity: Speaking activity and writing activity.

Class organisation: In groups of four (two and two) (alternatively in pairs).

Actions/Tasks: Students have to ask the nearest group the answers given by them in the previous activity, and write the sentences.

7th Activity:

Activity number: -

Time: 10'

Type of activity: Speaking activity (summarizing activity)

Class organisation: The entire group.

Actions/Tasks: Teacher should summarize the contents learnt in this 2nd teaching period. Solving doubts. Possible discussion.

3rd teaching period

1st Activity:

Activity number: -

Time: 5'

Type of activity: Speaking-reading activity.

Class organisation: The entire group.

Actions/Tasks: Read (students) or explain (teacher) the text "Heat transfer". Optional videos can help students to understand the contents.

2nd Activity:

Activity number: Activity 7

Time: 5'

Type of activity: Fill in the gap activity.

Class organisation: In pairs (optional individually).

Actions/Tasks: Students have to put the correct word into the gaps.

3th Activity:

Activity number: Activity 8

Time: 5'

Type of activity: Put pictures in the correct column or multiple choice activity.

Class organisation: In pairs (optional individually).

Actions/Tasks: Students have to put the picture in the correct column, or multiple choice activity; according the correct heat transfer.

4th Activity:

Activity number: -

Time: 10'

Type of activity: Reading (students), explaining (teacher) activity.

Class organisation: The entire group.

Actions/Tasks: Teacher should explain the text "How can we obtain heat? Energy conversion". Solving doubts. Possible discussion.

5th Activity:

Activity number: Activity 9

Time: 5'

Type of activity: Writing activity.

Class organisation: In pairs (optional individually).

Actions/Tasks: Students have to write, giving reasons, different ways to obtain heat.

6th Activity:

Activity number: Activity 10

Time: 5'

Type of activity: True/false activity.

Class organisation: In pairs (optional individually).

Actions/Tasks: Students have to decide if the sentences represents a use of heat.

7th Activity:

Activity number: Activity 11

Time: 5'

Type of activity: Writing activity.

Class organisation: In pairs (optional individually).

Actions/Tasks: Students have to write, giving reasons, why happens the fact that appear in the text.

8th Activity:

Activity number: -

Time: 5'

Type of activity: Read (student)/explain (teacher) the text "Endothermic and exothermic reactions". Class organisation: The entire group.

Actions/Tasks: Teacher should explain the contents. The optional video proposed could help students to understand better the contents.

9th Activity:

Activity number: Activity 12

Time: 5'

Type of activity: Multiple choice activity..

Class organisation: In pairs (optional individually).

Actions/Tasks: Students have to decide if the sentences represent endothermic or exothermic chemical reactions or processes.

10th Activity:

Activity number: -

Time: 10'

Type of activity: Speaking (summarizing) activity.

Class organisation: The entire group.

Actions/Tasks: Teacher should summarize the scenario. Solving doubts. Possible discussion.

Suggestions for future development and expansion of the scenario

I suggest expanding the scenario introducing different energy manifestations such as electricity, nuclear energy, sound, etc.