**Scenario Script Template**

**CHEMIST€RY.II**

The scenario will need around 4 hours. It follows scenario Chemist€ry.I (P4S03Y1) The activities proposed are temporarily distributed as:

**1rst teaching period**

***1st Activity: Reaction classification***

Time: 20’

Type of activity: Reading comprehension text.

Class organisation: All the group class

Actions/Tasks: Teacher solves doubts. Underlying the important things.

***2nd Activity: Chemical reaction or Chemical equation?***

Time: 25’

Type of activity: Complete activity 4

Class organisation: Work in groups/pairs

Actions/Tasks: Discover different kinds of chemical reactions. (Probably end as homework)

***LABPRACTICE 2: WHICH REACTION IS THIS?***

Time: 10’ by teacher (55’ if students)

Type of activity: Experimental

Class organisation: This experiment could be run by teacher, just as a demonstration reaction or could be run by students in pairs, in the laboratory. In this last case, one more hour should be provided.

Actions/Tasks: Follow the practice procedure. Guidance of teacher. Fill and complete the gaps of the practice worksheet.

**2nd teaching period**

***1st Activity: LABPRACTICE 3: MOL AND YIELD CALCULATION***

Time: 55’

Type of activity: Experimental

Class organisation: In pairs, in the laboratory.

Actions/Tasks: Follow the practice procedure. Guidance of teacher. Fill and complete the gaps of the practice worksheet.

**3rd teaching period**

***1st Activity: Other chemical reactions. Redox reaction***

Time: 15’

Type of activity: Watch video 5.

Class organisation: In pairs.

Actions/Tasks: Answer 5.1 questions (probably Internet search need)

***2nd Activity: Other chemical reactions. Combustion reaction***

Time: 30’

Type of activity: Interactive applet + Video 6

Class organisation: Individually

Actions/Tasks: Solve stoichiometric coefficients of basic combustion reaction

***3rd Activity: Other chemical reactions. Neutralization reaction***

Time: 10’

Type of activity: Internet search.

Class organisation: In pairs.

Actions/Tasks: Answer 5.3 questions

**4th teaching period**

***1st Activity: Elixir of life***

Time: 40’

Type of activity: Internet search, with teacher guidance.

Class organisation: Work in 2 groups.

Actions/Tasks: To solve one enigmatic activity 6.1 (Group 1) and 6.2 (Group 2)

***2nd Activity:***

Time: 15’

Type of activity: Drawing conclutions in common

Class organisation: Work in Groups and all together.

Actions/Tasks: To argue a controversial actual situation regarding conventional pharmacology or alternative ways. Activity 6.3 and 6.4

**Finally, in function of your assessments results I propose the optional FINAL ACTIVITIES, in order to consolidate contents. They could also be done as homework.**

***FINAL ACTIVITIES***

Type of activity: Content consolidation activities. Prepare a video or an oral presentation briefly (5’/student) explaining the 4 kinds of reactions studied

Class organisation: Co-evaluating activity teacher/students

Actions/Tasks: POPCORN Activity 3. Activity 1 and 2 as homework.

“Because of Covid-19 pandemics, this scenario was tested in online activities, and the final activity was a video production (POPCORN Activity 3).”

**Suggestions for future development and expansion of the scenario**

In order to consolidate knowledge I suggest to add more stoichiometry activities, either interactive than molecular modelized.