**Subject 8: Energy transition**

**Introduction**

During this project you are going to make a “pitch” (short and interactive presentation) for younger pupils (age 10-12).

The pupils will visit your pitch, in total 10 groups of each 10 pupils. So you have to do the pitch a total of 10 times! In the end each pupil will decide which pitch was the best/interesting/most informative, by putting a fiche in the box of the concerning Unit. The Unit with the most fiches in the end is the winner!

**Instruction**

Your topic is **Energy transition**. This energy transition is generally defined as a long-term structural change in energy systems. In this case the shift from traditional energy to more sustainable (renewable) ways. How can a country as the Netherlands be prepared for the future? What kind of energy is the best way to secure a save and sufficient way to provide electricity for all the inhabitant?

**Some points of notice:**

* You are going to interview the instructors from the Science Truck, who know all about the energy transition.
  + Time: Tuesday afternoon (go there on Monday to make arrangements)
  + Place: parking lot near the school
* Show the pupils during your pitch what energy transition stands for and why it is important for inhabitants and the environment to make sustainable choises.
* Invent a captivating activity for the pupils to do during your pitch!

**Some sources you can use for this topic:**

* <https://www.nnip.com/Default-display-on-11/Energy-Transition-in-the-Netherlands-a-template-for-Europe.htm>
* <https://www.foronuclear.org/es/press-room/press-releases/123836-nuclear-energy-plays-a-key-role-in-the-energy-transition>
* Ted talk: <https://youtu.be/-Ne5D-UnS4E>
* <https://youtu.be/FpgqQDJ01K0>

**Some sources with ideas for learning activities:**

* <https://globaldigitalcitizen.org/21-formative-assessment-tools>
* <http://www.queensu.ca/teachingandlearning/modules/active/12_exmples_of_active_learning_activities.html>
* <https://www.edutopia.org/blog/5-fast-formative-assessment-tools-vicki-davis>

**Schedule:**

**Quizizz in classrooms on Monday:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group | Hour | | | | Time | Class | Teacher | Classroom |
| **2e** | **3e** | **4e** | **5e** |
| 8 |  | X | - |  | 10.30-11.20 | H2D | KOK | H201 |
| A2B | VDM | H209 |

**Workshops:**

* Monday 11.30-12.30 Solar cell (Science Truck)
* Tuesday 10.30-11.20 Bioluminescence (Science Truck)
* Tuesday 11.20-12.10 Interviewing (H211)

**Monday** (H027, between 11.20 and 13.00 in HK24)

* 13.30-15.30: working on the science project:
  + Discuss with your unit what you want to show to the pupils
  + Make a start with the pitch (presentation + activity) of 8 minutes
  + Arrange an interview with company/organisation
  + Make a list of materials you need for the activity and make sure you have this materials in time!

**Tuesday** (Start in H101, from 11.00 in H027)

* 9.00-16.00:
  + Working on the pitch (presentation + activity) of 8 minutes
  + Interview with instructors of Science truck (afternoon)

**Wednesday** (H027)

* 9.00-12.30:
  + Working on the pitch (presentation + activity) of 8 minutes

**Thursday** (H027)

* 9.00-14.30:
  + Working on the pitch (presentation + activity) of 8 minutes
  + 9.20-11.20: Rehearsal of pitch (lower class students)
  + Use the feedback to make adjustments to your presentations

**Friday** (H027)

* 9.00-9.30:
  + Last preparations
* 9.30-12.00:
  + Presentations for primary school pupils