**Subject 1: Solar energy**

**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 **Solar energy**. Solar energy is the most abundant, [renewable energy](http://www.studentenergy.org/topics/renewable-energy) source in the world. Solar energy systems refer to technologies that convert the sun's heat or light to another form of [energy](https://www.studentenergy.org/topics/energy) for use. There are two categories of technologies that harness solar energy: Solar Photovoltaics and Solar Thermal

**Some points of notice:**

* You are going to interview Rick Bakker from de HVC-group who is specialized in solar energy.
  + Phone number: 06-82.47.48.61
  + Time: Tuesday afternoon (call him on Monday to make arrangements)
  + Place: HVC Dordrecht
* Show the pupils during your pitch why solar energy is renewable energy and a sustainable way to provide us with energy
* Invent a captivating activity for the pupils to do during your pitch!

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

* Workshop Solar cell in Science truck (Monday)
* <https://www.studentenergy.org/topics/solar>
* <https://www.youtube.com/watch?v=BtbASIJmsjE>

**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** |
| 1 | - | X |  |  | 10.30-11.20 | HV1A | DAM | H102 |
| HV1B | MOL | H104 |

**Workshops:**

* Monday 9.30-10.30 Solar cell (Science Truck)
* Tuesday 9.20-10.10 Bioluminescence (Science Truck)
* Tuesday 10.30-11.20 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:
  + Visit to company/organisation for interview
  + Working on the pitch (presentation + activity) of 8 minutes

**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