

Learning Scenario
Mathematics flipped classroom

Language(s): Anglais

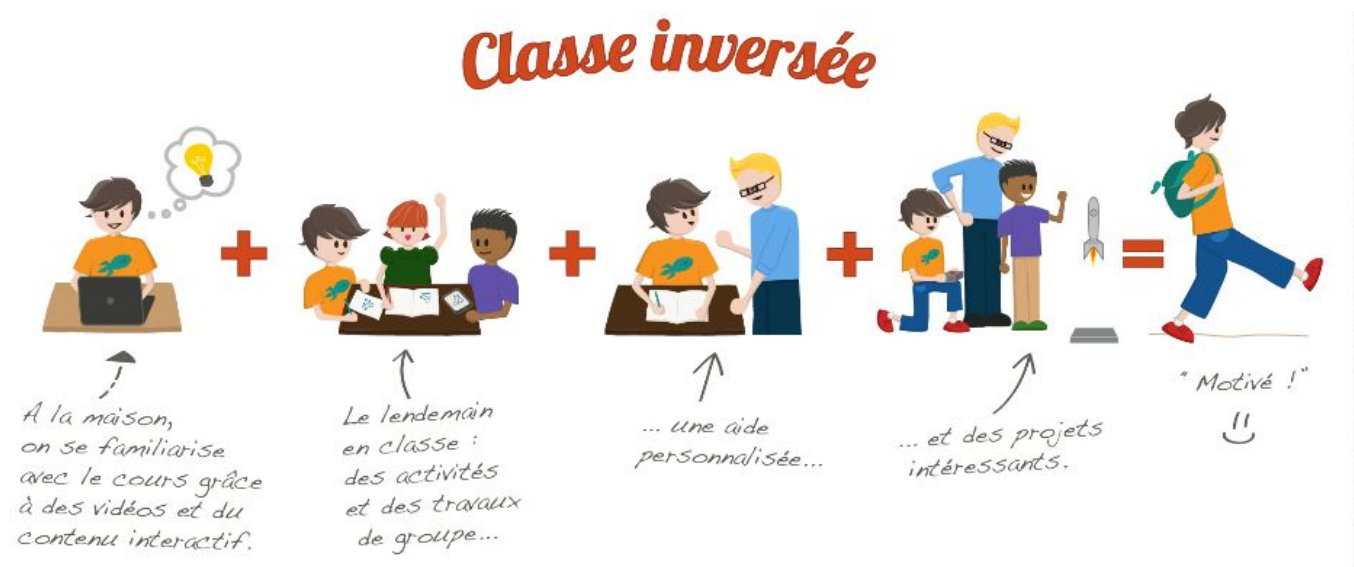
Domain: Mathématiques discrètes (mathématiques finies)>Nombres et calcul>Concepts des nombres

Author(s)

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Description/ main idea

Strengthen ownership of skills by students in this educational concept. A learning path combining: knowledge discovery independently, followed by a time of interaction in class in order to understand the concept.



For example : Solve problems involving proportionality and

particular problems relating to percentages.

Phases & Activities

Scenario PDF File [ods_summer_school_scenario_rouvray_enregistrement_automatique.pdf](#)

1. Preparation

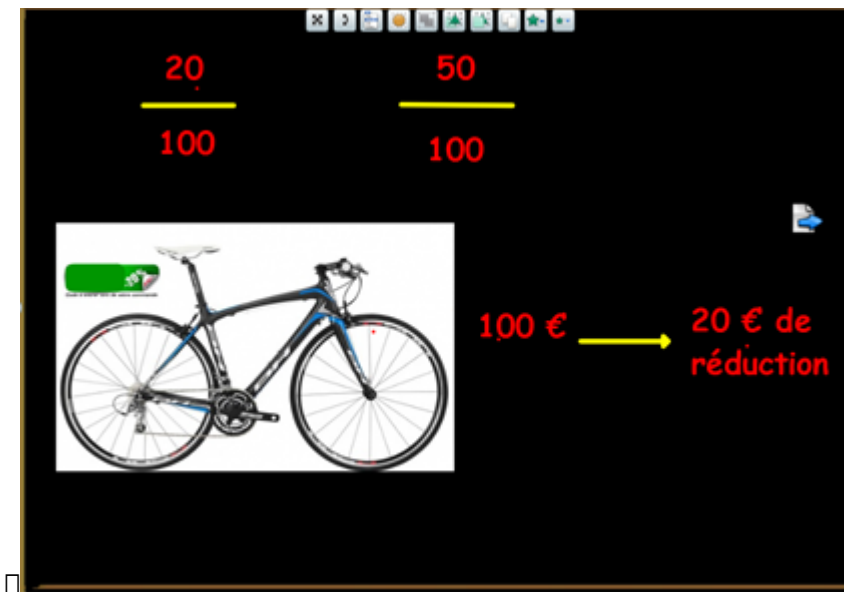


1.1 Video capsule

Description

□ Teachers must prepare the video capsule, put it on the digital workspace; Prepare batteries exercises for students to do as a group.

Prepare auto correction sheets. Teacher prepare the paperboard



Resources

Educational objects (as url):

1. <http://www.youtube.com/watch?v=VjqPIfonmm8>

2. <https://www.itslearning.com/Index.aspx?CustomerId=1717>

2. Implementent

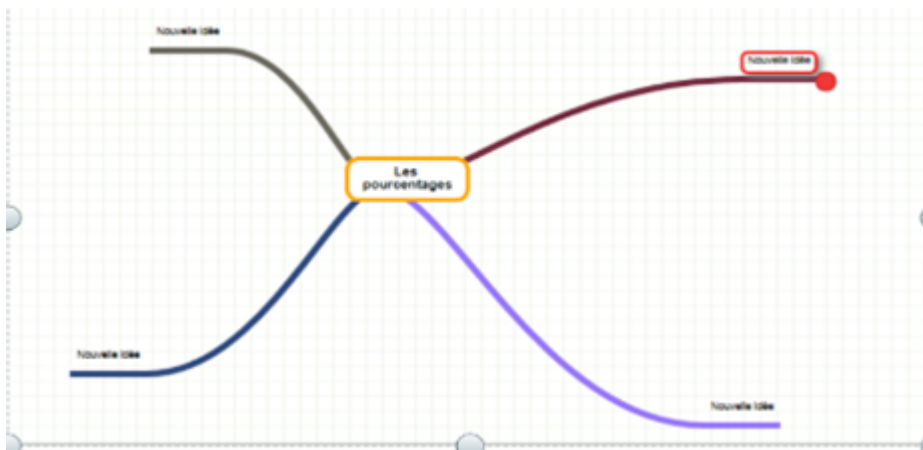
1) This video capsule helps to explain the concept of percentage Students can watch the capsule at home on the digital workspace or at school before the class.

**2)Students make in class a mental map on percentages
Organization of ideas :**

-In pairs, students will develop the mental map on percentages.

-Pooling through the viewer.

-Choosing a mental map or development of a joint.



<http://www.framindmap.org/framindmap.html>

3)Training :

Students solve problems in groups of 4.

After, they correct them, themselves.

Each student works at its pace, and teacher can help students who need more explications.

4) The pupils have to create questions for the digital system vote with multiple choices of answers and selection of the just answer so that the other pupils can answer it later in autonomy.



2.1 Activities

Description

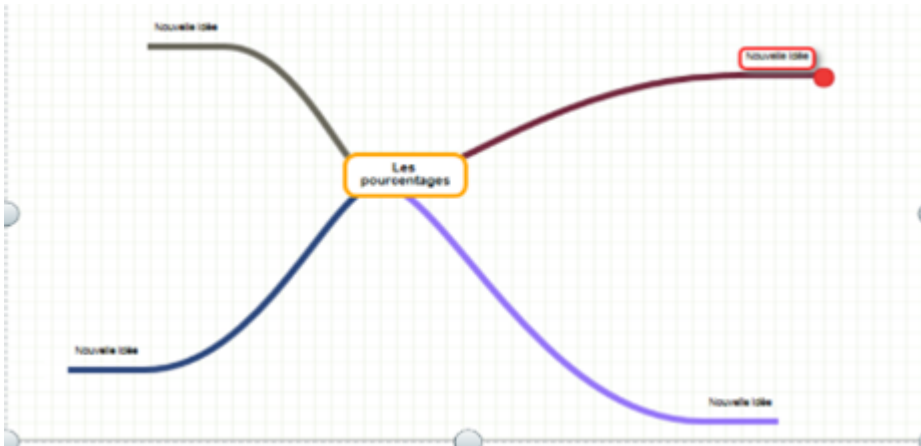
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3. Evaluation

□ To evaluate students, the professor asks them to create a document containing percentages on their school (pupils' percentage who eat at school/at home, who come by bus/by car/on foot....).

3.1 Means of evaluation

No content has been added for this activity.

4. Parental engagement

Parents agree to let their children go to the website of the digital workspace at home.

Teachers organize meeting with parents in order to explain the digital workspace and the education pedagogy of school.

Teachers insist so that students have an access to Internet at home.

Teachers propose them to come in classroom in order to understand the knowledge.

Parents can training their children by proposing them concrete situations at home.

4.1 Parental engagement

No content has been added for this activity.

Learning objectives**Cognitive - Knowledge:** Meta □ cognitive**Cognitive - Process:** To remember**Affective:** To organize values