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SSIS CAGLIARI A.A. 2005/2006

CORSO DI MULTIMEDIALITA' E LINGUAGGI SETTORIALI

MODULO CLIL: LEAVES

Target group: learners aged 14, A1+

Pre-requisites: simple present of to be and to have

Language objectives: consolidate the use of linkers because and so

Time: 4 hours

Material: paper, pencils, colours, scotch, posters, photocopies

Aids: video-beamer

UNIT 1: INTRODUCTION TO LEAVES (CO-PRESENCE)

1ST STEP:

(POWER POINT SHOTS-document: PRESENTATION 1)

1st shot

LEAVES: PALMATE AND PINNATE

2nd shot

Palmate veined leaf: the principal veins of the leaf emerge radially from a common point near the petiole, and there is no dominant central vein.

Pinnate veined leaf: paired side veins emerge serially, in "V" like fashion from the principal central vein, throughout the length of the leaf.

Parallel veined: the principal veins of the leaf emerge from a common point near the petiole, and extend to the tip of the leaf, while remaining parallel to the edge of the leaf, and to each other.



3rd shot

A simple leaf is a leaf in which the blade is a single unit and has got its own petiole.

A compound leaf: A leaf in which the blade is subdivided into several small leaves, called leaflets: these leaflets share a common petiole. The number of leaflets may vary within or between species; for example, a compound leaf may have from 5 - 7 leaflets or from 7 - 9, etc.





4th shot

Palmate compound leaf: A compound leaf in which the leaflets emerge radially from a common point of attachment on the petiole.

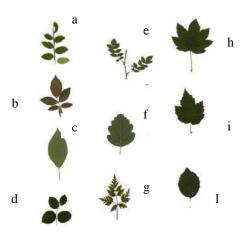
Pinnate compound leaf: A compound leaf in which the leaflets come out from both sides of a thick middle vein.

2ND STEP: ACTIVITY ON POSTERS (see the last page of this document, in the column co-presence)

UNIT 2: COMMON STRUCTURE OF LEAVES (THE ENGLISH TEACHER ALONE)

1st step: warming up (P. Point document: matching)

Activity 1: match leaves and definitions.



compound leaf ...

simple leaves ...

pinnate leaf ...

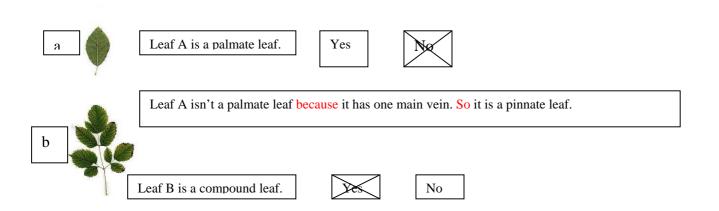
compound and palmate ...

palmate leaf ...

compound and pinnate leaf ...

2nd step (word document: giving reasons)

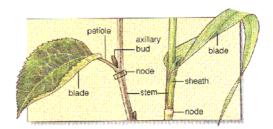
Activity 2: look at images above and complete the following table giving reasons for your choices.



	Yes	No
1) Leaf A is a simple leaf.		
2) Loof Dio o simula loof		
2) Leaf B is a simple leaf.		
3) Leaf C has a palmate venation.		
4) Leaf D is a compound and pinnate leaf.		
5 Leaf F has pinnate venation.		
5 Leaf 1 has primate ventation.		
6) Leaf G is a simple and palmate leaf		
7) Leaf L has a pinnate venation		

3rd step (power point document: presentation 2)

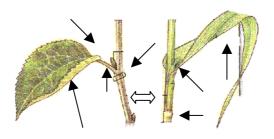
The leaf surface is called blade and it may be attached to the stem in two different ways: or through the patiole, or the leaf comes out directly from the stem; in this case, the first part of the leaf is someway wrapped to the stem and we call it sheath. The part of the stem from where the new leaf comes out is called node and the name of the newborn leaf is bud.



UNIT 3: EVALUATION

1st step (power point document: evaluation)

Look at the picture and insert the right terms from the box:



blade node stem petiole sheath axillary bud node blade	
stem petiole sheath axillary bud node	blade
petiole sheath axillary bud node	node
sheath axillary bud node	stem
axillary bud	petiole
node	sheath
	axillary bud
blade	node
	blade

2nd step Classify the leaves you find in the bag you have been given. Take into account:

- their shape
- their venation
- if they are simple or compound leaves

Then explain your reasons using because and so, as you did in class.

Part only for the English Evaluation Part to be done as a team, in coteacher presence. . This part should be preceded by an The teacher proposes a warming up The students are shown the same excursion in the countryside where through an exercise (activity 1) picture as that they saw during the the students can search for different second lesson (**Presentation 2**): the which should help the students to kinds of both fallen leaves and those definitions have been removed to let revise the concepts they went trough ones still on plants. The excursion together during the previous lesson; the students insert the right terms; aim is to involve students and to turn actually, the English teacher is interested in developing the students' afterwards, each student is given a the following lesson into part of their small bag containing some of the personal experience. skill in giving reasons for what they leaves they picked up in the state; so, after the correction, the countryside -the teacher pays . In this lesson the two teachers work together: the Science teacher explains teacher asks the students to do an attention as to include leaves exercise which involves the use of the presenting all the characteristics they some simple concepts such as: linkers because and so (activity 2). talked about during in class-: this the shape of leaves; especially relevant to the Science venation; . In the end, the teacher shows a teacher, while the English teacher is simple and compound leaves; Power shot with the picture of the interested in how the students common structure of leaves and motivate their own choices. explanations are supported with explains it. power point shots. The two teachers alternate in speaking, in the sense that the English teacher intervenes at crucial points to translate into English some technical terms and to repeat some explanations, obviously in English. . Students may get interested in what their teachers are talking about because they expect to be involved in a few moments- in a practical activity, especially because they see before them an amount of leaves on a table; after the theoretical part, indeed, students will be asked to classify the leaves they picked up during the excursion, on the basis of the criteria mentioned above; the students are divided into groups; each group should create a poster: students should stick the leaves on the poster

Part only for the Content Specialist

and write down definitions. Then the

posters will be stuck on the

classroom walls.

· (....)

· (....)

[•] The colleague explains everything attaining the leaves colour, so his main topic is *photosynthesis*.