



# FAMT&L

## FORMATIVE ASSESSMENT IN MATHEMATICS FOR TEACHING AND LEARNING

# Work Package 5 - Development of the web repository

## **Deliverable D5.1: Digital materials**

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Description (limit 1000 characters)			
The digital materials and contents collected and to be uploaded on the web repository will be:			

instructional materials, formative assessment tools (e.g. cards, diagrams, etc..), videos (recordings of situations, teaching situations), extracts of movies with text comments or related activities, specific tools for formative assessment, learning objects (LO) created and used for training of teachers, list-references bibliography, site link, glossary, file of project documentation (draft, reports, notices, meeting minutes, articles, etc.).

These digital materials and tools of formative assessment will be loaded into the web repository as a methodological resource for planning of the teachers training paths.

#### Executive Summary:

The document shows the digital materials and contents collected and to uploaded on the web repository as:

instructional materials, formative assessment tools (e.g. cards, diagrams, etc..), videos (recordings of situations, teaching situations), extracts of movies with text comments or related activities, specific tools for formative assessment, learning objects (LO) created and used for training of teachers, list-references bibliography, site link, glossary, file of project documentation (draft, reports, notices, meeting minutes, articles, etc.).

These digital materials and tools of formative assessment were a methodological resource for planning of the teachers training paths.

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### 1. Introduction

To introduce the contents of this report it is necessary to consider all project phases that leaded to develop a specific and local pilot course aimed to improve teachers' skills in assessment.

Initially it had been assumed the implementation of a single virtual environment for the collection and archiving of video, as well as all other materials to support the training course and the work of the FAMT&L research group.

In fact, the researchers thought to upload in this web repository digital material as: instructional materials, formative assessment tools (e.g. cards, diagrams, etc..), videos (recordings of situations, teaching situations), extracts of movies with text comments or related activities, specific tools for formative assessment, learning objects (LO) created and used for training of teachers, list-references bibliography, site link, glossary, file of project documentation (draft, reports, notices, meeting minutes, articles, etc.).

These digital materials and tools of formative assessment were imagined as methodological resource for planning and conducting the teachers training paths.

Afterwards the web repository has been characterized to be only an environment to storage videos and materials related to teaching activities videotaped in classroom.

Instead teaching materials used for the course have been loaded on the e-learning platform (in the Countries that have adopted it) or otherwise used in the presence during each course.

Finally, the documents of the project, the information, the main publications have been loaded into the project's website, or stored in the cloud project folders.

in this document we want to show the main types of materials used and to document the production of support materials prepared and used by each partner. To this end, it seems useful also to make a list of archived materials in the folder of Annex to Deliverable D.5.1.

### 2. Materials and tools

This section presents the main types of materials for learning or activities promoted during the different courses. Specifically, it is suggested to view such material in the Annex folders, since for every country there were used very specific materials.

### 2.1 Training tasks

In the last years the teachers' professionalism is an important topic of international research; this has been central in the matter of teacher training, as a strategic factor to improve the national educational systems. (Lovece, 2016)

In particular, a good part of the scientific debate about teachers training activities seems to focus on a fundamental "crux" given by the relationship between theory and praxis, between knowledge and competences, i.e. by the research of how to train the teachers in such a way to get that the information they gain will really develop into new behaviours and competences that will enter into play in their everyday teaching practices.

There are several different contributes to this debate, based on interdisciplinary studies, that seem to validate the idea that a fundamental step for the professionalization of teachers is the identification of the most suitable ways to *conceptualize* their explicit practices in teaching by means of recursive processes, integrated and interdependent among them (observation, comprehension, anticipation or prediction of what happens and can happen after a specific action).

From these premises some indications derive about the most effective methodologies to promote the co-presence of theory and praxis in the teachers training (both in-service or preservice). Such are many techniques that can be based on the use of specific support tools, such as, in particular, the videos, but also promoting activities in which teachers can do experiences in practices.

The activities proposed during the courses were aimed to help the trainees first-hand to have experience in the concrete expression of what was learned in the classroom. In the given task, then, through simulation experiences of practical situations, the teacher had to have the opportunity to analyse, experiment, critically evaluate pedagogical and didactic knowledge acquired (both general, both disciplinary), co-constructing skills within of a group.

### 2.2 Video by other sources

Researchers had analysed many studies in which the object was the use of video in teacher training. In general, methods that make use of video in training are classified as "media education" and in particular those which are addressed to teachers can be distinguished depending on the specific use that is made of the video itself (Masats and Dooly 2011):

- as both an object and a tool for observation and analysis, to show a subject to the teachers (we speak of *video-viewing*, in this case);
- as an example or display, when the video shows the practices and the behaviour of experienced teachers in specific situations (*video modelling*);
- as a record of teachers themselves, which is shared with the others, making it an occasion of comparison and debate with colleagues or with a trainer (*video coaching*).

Content, length, aim of a video can be various. For example, a video can be presented as an example of everyday teaching activity (Carbonneau and Hétu 2006), or as a "best practice" which rarely could be directly observed, or as a specific experience or experimentation (Santagata and Guarino 2011). In our courses many videos has been used to show specific strategies of formative assessment activities in classroom.

In FAMT&L pilot courses the videos have been used in many ways (see report WP5) and mainly were videos analysed and stored in the project web repository.

However, during the training meetings the partners have also used different videos, from other sources (eg. Teaching Channel). See in detail what video it is and for what purpose were shown during the meetings training (table in 2.5).

### 2.3 *Ppt presentation and materials for theoretical study*

A good training requires a thorough understanding of the theoretical references needed to guide and support the practical activities. For this reason every partner has included in its own pilot training program also theoretical materials necessary for the study and deepening of the themes treated in the presence.

These materials were mostly chapters of books, articles, essays, references given to teacher training so that he could still have a valid "basic" knowledge to activate the proper critical thinking that can change their beliefs and to promote a real change, even if long-term, of their practices in the classroom.

In addition, during the lessons in presence it has made use of power point presentations in support of the oral presentation of the contents to be treated and to discuss. The use of slide is common in many classroom settings and training to facilitate the acquisition of information lightening the cognitive load (Cognitive Load Theory, CLT, see; Gagné and Briggs. 1990; Merrill 2001).

A good integration of text, image and multimedia may help to gather information especially if:

- it tries to ensure the centrality of the information, avoiding redundancy and taking into account the previous expertise;
- it uses signaling strategies able to direct the attention on the most significant aspects for purposes of understanding;
- It uses the written text to focus briefly the terms and the essential concepts, accompanied by oral comments to clarify and enrich the selected items;
- It uses images to assist in the care and minimize the cognitive load, re-activate pre knowledge or help build new mental models (Calvani, 2011).

### 2.4 Task by distance (reflexivity tools)

Researcher studied in theoretical framework that all activities aimed to promote a reflection by teachers on their own practices can't be sufficient to give life to the experience of change in the evaluation practices of the teachers concerned. Therefore, it is particularly important that they are accompanied and supported by instruments and figures to serve as guidance and orientation. Recent researches, in fact, have shown the critical role of driving figures or mentoring to stimulate learning "from" and "in" the experience, highlighting how the professional performance improve when teachers are supported by a guide emphasizing on the connections with their previous experience (Filliettaz 2014).

In this sense it is also important to emphasize the use of strategies and methods drawn by research experiences that show how the video recording for educational practices becomes even more incisive if intertwined reflection and dialogue provoked by questions-stimulus guided by a researcher / facilitator or by the use of tools such as exercises and tasks with questions stimulation or learning diaries that guide the subject to a meta-cognitive level.

To this purpose, we propose two examples of the required activities that accompany teachers throughout the course (these materials are in the Annex folder)

#### Learning diary

The activities of reflection is guided both by the recall of theoretical materials and / or used in activities in the presence (and therefore with the supervision of the teacher of the course and the tutors in the classroom), and through some questions stimulus to draw attention to part of the students about their own experiences and the convictions that dictate their assessment practices.

Another element of aid is given by the request to make an assessment of the activity in terms of acquiring of knowledge and abilities and specific skills development, but also through the awareness of the strengths and difficulties that have characterized the conduction of the specific activity.

#### Individual or in group activities

As in the diary, the activities to be carried out individually or in groups (in the classroom or at a distance) require critical reflection by the students on what they usually do in the classroom or on the beliefs influencing their assessment practices. In the classroom the students are divided into small groups who, with the help of the teacher and a tutor, perform specific activities and then, at the end of the lesson, share with other groups the ideas that are emerged.

As can be noted, there is the reference to video, analysed or to be analysed, which shows the integration of the videos themselves and repository in the didactic path with all the methodological elements explained above.

### 2.5 Lists of materials for each Country

#### 2.5.1 UNIBO – Italy

What (object and aim)	Type (word file, LO, presentation, pdf, etc…)	Use	Where
Lesson 1: A model of educational evaluation in Italy	A brief introduction (Pdf)	Knowledge and theoretical study	Espace Platfom (module 1)
Lesson 1: Cap1_Assessment to measure or to learn	Book's chapter (in pdf)	Knowledge and theoretical study	Espace Platfom (module 1)
Lesson 1: Cap3_To	Book's chapter	Knowledge and theoretical study	Espace Platfom

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improve practices	(in pdf)		(module 1)
Lesson 1:	Ppt	Suppoting a face to face lesson	Espace Platfom
Formative	presentation		(module 1)
Assessment Lesson 1: Some	Introduction	Knowledge and theoretical study	Espace Platfom
notes_Formative	about FA (pdf)	Knowledge and medicilear study	(module 1)
Assessment	about i A (pui)		
Lesson 2:	Article by	Knowledge and theoretical study	Espace Platfom
Document By some	Teacher		(module 2)
association	Associacion		
	(pdf)		
Lesson 2:	Article	Knowledge and theoretical study	Espace Platfom
Formative Assessment in			(module 2)
Mathematics			
Lesson 3:	Book's Chapter	Knowledge and theoretical study	Espace Platfom
Cap4_Self	(pdf)		(module 3)
assessment			· · · ·
Lesson 3: Teory_	Articles	Knowledge and theoretical study	Espace Platfom
Mathematics	/chapters (pdf)		(module 3)
teaching			
■ 170 VS 18 2010 ■ 230 Convegno			
Tricase			
■247 Fandino			
Introduzion			
е			
Zan_ difficoltà			
<ul> <li>Zan Errore</li> </ul>			
Lesson 4: Cap	Book's Chapter	Knowledge and theoretical study	Espace Platfom
5_Correcting and feedback	(pdf)		(module 4)
Lesson 5: Cap	Book's Chapter	Knowledge and theoretical study	Espace Platfom
6 Strategies to	(pdf)		(module 5)
assess			(,
Activities or tasks:	Form to be	Activity that require critical reflection by	Espace Platfom
Task for group_1	completed	the teacher on what they usually do in	
	(word)	the classroom or on the beliefs	
		influencing their assessment practices. In the classroom the students are	
		divided into small groups who, with the	
		help of the teacher and a tutor, perform	
		specific activities and then, at the end of	
		the lesson, share with other groups the	
		ideas that are emerged	
Activities or tasks:	Form to be	Activity that require critical reflection by	Espace Platfom
Task for group_2	completed	the teacher on what they usually do in the classroom or on the beliefs	
	(word)	influencing their assessment practices.	
		In the classroom the students are	
		divided into small groups who, with the	
		help of the teacher and a tutor, perform	
		specific activities and then, at the end of	
		the lesson, share with other groups the	
A ativitian ar tanka	Form to be	ideas that are emerged	Fanaga Diattara
Activities or tasks:	Form to be	Activity that require critical reflection by the teacher on what they usually do in	Espace Platfom
Task for group_2	completed	the classroom or on the beliefs	
	(word)	influencing their assessment practices.	

		divided into small groups who, with the help of the teacher and a tutor, perform specific activities and then, at the end of the lesson, share with other groups the ideas that are emerged	
Individual activities_0	Form to be completed (word)	Activity that require critical reflection by the teacher on what they usually do in the classroom or on the beliefs influencing their assessment practices.	Espace Platfom
Individual activities_1	Form to be completed (word)	Starting by the vision of a video, this require critical reflection by the teacher on what they usually do in the classroom or on what and how he/she can change his/her practice.	Espace Platfom
Individual activities_2	Form to be completed (word)	Activity that require critical reflection by the teacher on what they usually do in the classroom or on the beliefs influencing their assessment practices.	Espace Platfom
Individual activities_3	Form to be completed (word)	Activity that require critical reflection by the teacher on what they usually do in the classroom or on the beliefs influencing their assessment practices.	Espace Platfom
Learning diary	Form to be completed (word)	The activities of reflection by teacher trainees is guided through some questions stimulus to draw attention to their own experiences and the convictions that dictate their assessment practices. Another element of aid is given by the request to make an assessment of the activity in terms of acquiring of knowledge and abilities and specific skills development, but also through the awareness of the strengths and difficulties that have characterized the conduction of the specific activity.	Espace Platfom
Designing a FA practice	Form to be completed (word)	Activity to try to design a specific practice using indication and strategies analysed or hypothesised.	Espace Platfom
Video: <i>My favorite</i> no	A lesson starter strategy: • Assessing class learning • Giving feedback	The video is an occasion to view a strategy to gather information about student's learning and to reflect on characteristic that a FA practice should have.	https://www.teachi ngchannel.org/vid eos/class-warm- up-routine
Video: Show Your Cards!	Use colored cards throughout a lesson to monitor and communicate understanding	The video is an occasion to view a strategy to gather information about student's learning and to reflect on characteristic that a FA practice should have	https://www.teachi ngchannel.org/vid eos/show-your- cards-student- assessment

#### 2.5.2 SUPSI- Switzerland

What (object and aim)	Type (word file, LO, presentation, pdf, etc)	Use	Where
Documents related to video uploaded on the web repository	Word file: "PianoLezione.docx" "Scheda.docx" "CH_6_SMGR1_20 15_01_01_tabella tempi_ita.docx" (a different word file for each video)	Documents to better understand the situation shown in the video. PianoLezione.docx contains all steps of the lesson; Scheda.docx contains tasks presented by the teacher; *_tabella_tempi_ita.docx contains the dialogue between teacher and student and user guide's indicators.	Uploaded on the web repository (for each video)
"clip_2014-05- 22.m4V" Video extra analysis NOT recorded and analysed in classroom for web repository.	Videoclip	Brief video that doesn't represent a FA situation, but for us it was important to show it, to better understand what is a real FA situation and how the teacher in the video could use FA in a better way.	Shown during the course

#### 2.5.3 UCY - Cyprus

What (object and aim)	Type (word file, LO, presentation, pdf, etc)	Use	Where
Assessment in	1_INTRODUCTION	Through this presentation the participants received information about the FAMT&L project (aim, methodology and results), the project results for Cyprus and comparison with the rest countries, the training course and its objectives and a first theoretical overview on formative assessment.	projector during the first part of the first lesson of the
Nine different papers related to Formative Assessment "Paper 1, Paper 2, Paper 3, etc."	Pdf	These papers/articles operated as tools through which the participants could find information about four dimensions of formative assessment (definition of FA, description (goals, use) of FA, techniques of FA and	on the desktop of each computer and the participants had access to these during the personal study and deepening in the

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		differences between formative	
		and summative assessment).	
"links of videos"	Word document: "links of videos"	In this word document, the participants could find some	This word document was also stored on the desktop
		links of videos related to	of each computer and the
		formative assessment from the	participants had access to
		Teaching Channel site. Through	this during the personal
		these videos, the participants	study and deepening in the
		could find information about the	second part of the first
		four dimensions of FA.	lesson of the training.
"Formative	Power Point:	This presentation was used as a	It was shown through
Assessment in	"Lesson	tool for brainstorming about the	projector during the second
the Teaching	1_DISCUSSION.p	four dimensions of formative	part of the first lesson of
and Learning of	pt	assessment (definition of FA,	the training.
Mathematics"-		description (goals, use) of FA, techniques of FA and	
Discussion		techniques of FA and differences between formative	
		and summative assessment)	
		which the participants were	
		asked to answer using the	
		articles. It was also used for the	
		presentation of the main points	
		of the above dimensions of FA.	
Three episodes	MP4 file	These short episodes were used	These episodes were
of videos -	"1.Movie 1"	for the purpose of the	depicted through video
unstructured	"2.Movie 2"	unstructured or exploratory	projector during the first
observation	"3.Movie 3"	observation where the	part of the second lesson
		participants were asked to	of the training course.
		identify some good teaching and assessment practices and tools	
		or practices not entirely	
		functional for the purpose of the	
		formative assessment. The	
		analysis of these videos was	
		conducted without using a grid	
		of analysis.	
		More specifically, during	
		observing the videos, the	
		participants were asked to take	
		notes according to the following	
		points, which were discussed after the end of each video:	
		Positive teachers' actions	
		(generally about teaching and	
		specifically about formative	
		assessment)	
		Actions to improve –	
		Suggestions	
		Formative assessment	
		techniques used by the teacher-	
		students	

Four episodes of videos structured observation     MP4 file "4. Movie 4"     These short episodes were used for the purpose of the structured observation where the "5. Movie 5"     These short episodes were used observation where the identify some good teaching and assessment practices and tools or practices not entirely functional for the purpose of the formative assessment. However, this analysis of the videos was conducted using a grid of analysis, based on some of the indices of the project's grid of video analysis.     These episodes were depicted through video part of the second lesson of the training course.       **A the previous part of the video analysis.     As the previous part of the video analysis.     As the previous part of the video analysis.       **Course of the following points, which were discussed after the end of each video: **Positive teachers' actions (generally about feaching and specifically about feaching and specifically about feachers students If you were to repeat this episode in your classroom, what would you keep/ change/improve?     It was shown through projector during the second part of the second part of the second of the training.       **Observation analysis     Power Point: **Observation- video     This presentation was used as a tool for describing the episodes/videos regarding to the four above focus points.     It was shown through projector during the first and the second part of the second lesson of the training.       **O Tools for Assessment.**     **O Tools for formative Assessment.doc*     This presentation was used as a too for document.     It was shown through projector during the desktop of formative assessment the in their microteaching the participants had access to the in their microteaching the participants had access <th></th> <th></th> <th>If you were to repeat this</th> <th></th>			If you were to repeat this	
Four episodes of videos structured     MP4 file "4.Movie 4"     These short episodes were used for the purpose of the structured observation where the projector during the second participants were asked to identify some good teaching and assessment practices and tools or practices not entirely functional for the purpose of the formative assessment. However, this analysis of the videos was conducted using a grid of analysis based on some of the indices of the project's grid of video analysis, during observing the videos, the participants were asked to take notes according to the following points, which were discussed after the end of each video: Positive teachers' actions (generally about teaching and specifically about formative assessment) Actions to improve – Suggestions Formative assessment) Actions to improve – Suggestions If you were to repeat this episode in your classroom, what would you keep/ change/improve?     It was shown through projector during the first and video analysis.       "Observation analysis     Power Point: "Observation analysis     This presentation was used as a tool for describing the main points which emerged from the four above focus points.     It was shown through projector during the first and the second part of the second lesson of the training.       "80 Tools for Formative Assessment."     Power Point: "60 Tools for Formative Assessment."     This word document the in their microteaching the the second the desktop of each computer and the participants had access to the second the desktop of each computer and the participants had acccess to th				
Four episodes or videos structured observation       MP4 file "3.Movie 4" "5.Movie 5" "6.Movie 6" "7.Movie 7"       These short episodes were used for the purpose of the structured observation where the participants were asked to identify some good teaching and assessment practices and tools or practices not entrely functional for the purpose of the formative assessment. However, this analysis to the videos was conducted using a grid of analysis based on some of the indices of the projects grid of video analysis.       These episodes were asked to take notes according to the following points, which were asked to take notes according to the following points, which were discussed after the end of each video: Positive teachers' actions (generally about teaching and specifically about formative assessment) Actions to improve – Suggestions Formative analysis"       It was shown through projector during the first analysis (use of the second part of the video in your classroom, what would you keep/ changefimprove?         "Observation analysis"       Power Point: "Observation 2"       This presentation was used as a tool for describing the main points which emerged from the four above focus points.       It was shown through projector during the first and the second part of the second lesson of the training.			, , , ,	
of videos structured observation       "4.Movie 4"       for the purpose of the structured observation where the identify some good teaching and assessment practices not entirely functional for the purpose of the formative assessment. However, this analysis based on some of the indices of the rorject's grid of video analysis.       depicted through video projector during the second participants were asked conducted using a grid of analysis based on some of the indices of the project's grid of video analysis.       depicted through video projector during the second participants were asked to take notes according to the following points, which were discussed after the end of each video:         ************************************			change/improve?	
of videos       "4. Movie 4"       for the purpose of the structured observation       depicted through video projector during the second participants were asked to assessment practices not entirely functional for the purpose of the formative assessment. However, this analysis of the videos was conducted using a grid of analysis based on some of the indices of the project's grid of video analysis.       of the training course.         As the previous part of the video analysis, during observing the videos, the participants were asked to take notes according to the following points, which were discussed after the end of each video:       As the previous part of the video analysis, during observing the videos, the participants were asked to take notes according to the following points, which were discussed after the end of each video:         "Observation and Video "60 Tools for Formative Assessment."       Power Point: "0 Tools for Formative Assessment."       This presentation was used as a tool for describing the episode in your classroom, what would you keep/ change/improve?       It was shown through projector during the first analysis_Lesson 2"         "60 Tools for Formative Assessment."       Power Point: "0 Tools for Formative Assessment.assessment in this word document, the participants could find a variety of formative assessment techniques which they could use the in their microteaching the first and the access to deal computer and the participants had access to formative Assessment."	Four episodes	MP4 file	These short episodes were used	These episodes were
observation       "6.Movie 6"       "participants were asked to identify some good teaching and assessment practices and tools or practices not entirely functional for the purpose of the formative assessment. However, this analysis of the videos was conducted using a grid of video analysis.       participants were asked to take notes according to the formative assessment. However, this analysis, during observing the videos analysis based on some of the following points, which were discussed after the end of each video:       As the previous part of the video analysis, the participants were asked to take notes according to the following points, which were discussed after the end of each video:         "Observation and Video analysis"       Power Point:       "Observation- Video analysis_Lesson 2"         "Observation analysis Lesson 2"       Power Point:       This presentation was used as to for describing the main points which emerged from the episodes/videos regarding to the for above focus points.       It was shown through projector during the first and the second part of the second part of the second part of the desktop of formative assessment.         "60 Tools for Formative Assessment."       "60 Tools for Formative Assessment.doc"       In this word document, the participants could find a variety of formative assessment.       This word document was the participants had access to the in their microteaching the participants had access to the in their microteaching the main during the desktop of the second part o		"4.Movie 4"	-	-
"7.Movie 7"identify some good teaching and assessment practices and tools or practices not entirely functional for the purpose of the formative assessment. However, this analysis of the videos was conducted using a grid of analysis based on some of the indices of the project's grid of analysis, during observing the videos, the participants were asked to take notes according to the following points, which were discussed after the end of each video: Positive teachers' actions (generally about teaching and specifically about formative assessment) Actions to improve - Suggestions Formative assessment it you were to repeat this episode in your classroom, what would you keep/ change/improve?It was shown through projector during the first to descond pet first to descond pet for to alto take notes regarding to the scond the explored points."Observation analysis"Power Point: "Observation analysis_Lesson 2"This presentation was used as a to for describing the main points which emerged from the episodes/videos regarding to the formative assessment. to for document, the participants could find a variety of formative assessment."It was shown through projector during the first to document was also stored on the desktop of for mative assessment. To formative assessment.				
"Observation analysis"       Power Point: "Observation analysis_Lesson 2"       Power Point: "Go Tools for Assessment doc"       This presentation was used as a tool for describing the main points which emerged from the episodes/videos regarding to the second Leston points.       It was shown through projector during the videos and years of the video analysis.         "Observation analysis"       Power Point: "Observation analysis"       Power Point: "Observation analysis_Lesson 2"       This presentation was used as a tool for describing the main points which emerged from the episodes/videos regarding to the training.       It was shown through projector during the first book of the emerged from the episodes/videos regarding to the training.         "60 Tools for Formative Assessment"       Power for for Formative Assessment doc"       This presentation was used as a tool for describing the main points which emerged from the episodes/videos regarding to the for above focus points.       This word document was participants could find a variety of formative assessment techniques which they could use the in their microteaching the this during the design of	observation			-
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		course.	third part of the second lesson of the training.
Web repository of the FAMT&L project	Link: http://famtl.scedu. unibo.it/user	This link gave participants the opportunity to visit the web repository of the project and watch more episodes/videos related to formative assessment in order to design their microteaching. (The participants had access to the repository using a password)	The visit of the Web repository of the FAMT&L project, during the design of their microteaching in the third part of the second lesson of the training.
"Formative Assessment in	Power Point: "Lesson	Through this presentation the trainers and the participants	It was shown through projector during the second
the Teaching	3_CONCLUSION	drew together the elements of	part of the third lesson of
and Learning of Mathematics"- Conclusions	S.ppt"	formative assessment arising from the course.	the training.

#### 2.5.4 InHolland - The Netherlands

#### Meeting 1

file	translation	discription
Bijeenkomst 1 training versie 2 handouts.pdf	Meeting 1 training version 2 handouts.pdf	These are handout of the powerpoint presentation used in the first meeting
Bijeenkomst 1 training versie 2.pdf	Meeting 2 training version 2.pdf	These are all the slides in the powerpoint presentation used in the first meeting
Bijeenkomst 1 training.pptx	Meeting 1 training.pptx	The powerpoint presentation used in the first meeting (on theory of formative assessment)
Huiswerkopdrachten van 1 naar 2.docx	Preparation assignments for 1 <sup>st</sup> to 2 <sup>nd</sup> meeting.docx	This is an assignment to be done between the first and second meeting
Kijkopdracht bijeenkomst 1.docx	Observation assignment meeting 1.docx	This assignment was done during first meeting

### Meeting 2

file	translation	discription
Bijeenkomst 2 training versie 1.pptx	Meeting 2 training verion 1.pptx	The powerpoint presentation used in 2 <sup>nd</sup> meeting (on effective feedback)
In folder Lesson study		
Werkblad 1E.docx	Worksheet 1E.docx	These worksheets must be used
Werkblad 2A.docx	Worksheet 2A.docx	in preparation of the design of
Werkblad 2B.docx	Worksheet 2B.docx	the lesson using formative
Werkblad 2C.docx	Worksheet 2C.docx	assessment in the lesson study- cycle

### Meeting 4

file	translation	discription
Bijeenkomst 4 training.pptx	Meeting 4 training.pptx	The powerpoint presentation
LLP Comenius FAMT&L: 538971-L	LP-1-2013-1-IT-COMENIUS-CMP	Deliverable 5.1.

used in 4 <sup>th</sup> meeting (reflection on lesson and training)
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#### VIDEOS

Title	weblink	discription
Where did they go wrong	http://bit.ly/1hHoJyw	A lesson starter strategy
My favorite no	https://www.teachingchannel.org/videos/class- warm-up-routine	A lesson starter strategy: Assessing class learning Giving feedback
Formative assessment: Understanding congruence	https://www.teachingchannel.org/videos/formative- assessment-high-school-math-sbac	Sharing and understanding learning goals and success criteria
Students learn from their mistakes	https://www.teachingchannel.org/videos/students- learn-from-mistakes-ccssmdc	Students collaborative learning from own mistakes
Facilitating peer learning 1	https://www.teachingchannel.org/videos/peer- learning-between-students	Take ownership of math content through dialogue, peer teaching, and presentation
Exit tickets	https://www.teachingchannel.org/videos/student- daily-assessment	Provide quick and effective reteaching with daily tiered assessments
The stoplight method	https://www.teachingchannel.org/videos/daily- lesson-assessment	Use exit slips to assess learning
Dylan Wiliam		Dylan Wiliam defining and explaining formative assessment

#### 2.5.5 UCP – France

For UCP the digital materials have been uploaded on a specific platform and the course was in a MOOC with many web pages and contents. For this reason, in the following scheme there is a brief presentation of them.

#### MOOC – FAMTL

Tools that we used : Two modules : 1. Formative assessment ; 2. Links to researches ;

#### For module : formative assessment

Tab Presentation : general presentation of the formative assessment using differents researchers definitions, WP1

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