Module 2A. eXeLearning as a tool for creating digital content

• TeComp

Laura Muñiz Rodríguez

munizlaura@uniovi.es

University of Oviedo





Universidad de Oviedo Universidá d'Uviéu University of Oviedo



Contents

- 1. Introduction to the use of eXeLearning.
- 2. eXeLearning download and installation.
- 3. eXeLearning work environment and structure.
- 4. Creation and editing of digital content using design instruments or iDevices (textual information, non-interactive activities, interactive activities, non-textual information), own design instrument, and text editor.
- 5. Export content created with eXeLearning.
- 6. Upload eXeLearning content to a course in Moodle.

1. Introduction to the use of eXeLearning



eLearning XHTML editor = eXeLearning

- Editing environment specially designed for creating educational content.
- It does not require to have an extensive knowledge of languages such as HTML or XML.
- It uses standard formats (like IMS or SCORM) widely used in learning management systems such as Moodle.
- It is an **intuitive and easy to use tool** that allows teachers to **create and publish a complete variety of educational content** (text, images, clips, tables, sounds, GeoGebra applets, etc.) on web pages or online learning environments.
- It works without an Internet connection.

2. eXeLearning download and installation https://exelearning.net/en/ eXeLearning HELP FORUMS LOGIN LANGUAGE -FEATURES DOWNLOADS BLOG eXeLearning 2.5 Choose your OS **GNU/Linux** Microsoft Windows Apple Debian/Ubuntu 20.04+ (Snap) Install version macOS Ready to run (ready2run) Debian/Ubuntu Fedora/Redhat Portable version (Windows) Portable version (Linux) eXe Labs: Launchpad PPA (Linux) Sources for building package Other downloads PREVIOUS VERSIONS SOURCE CODE STYLES

4

2. eXeLearning download and installation



🗑 INTEF-eXe-install-2.2.exe

🧱 INTEF-exe-ready2run-2.2.exe

portable-INTEF-exe-2.2-win.zip



2. eXeLearning download and installation

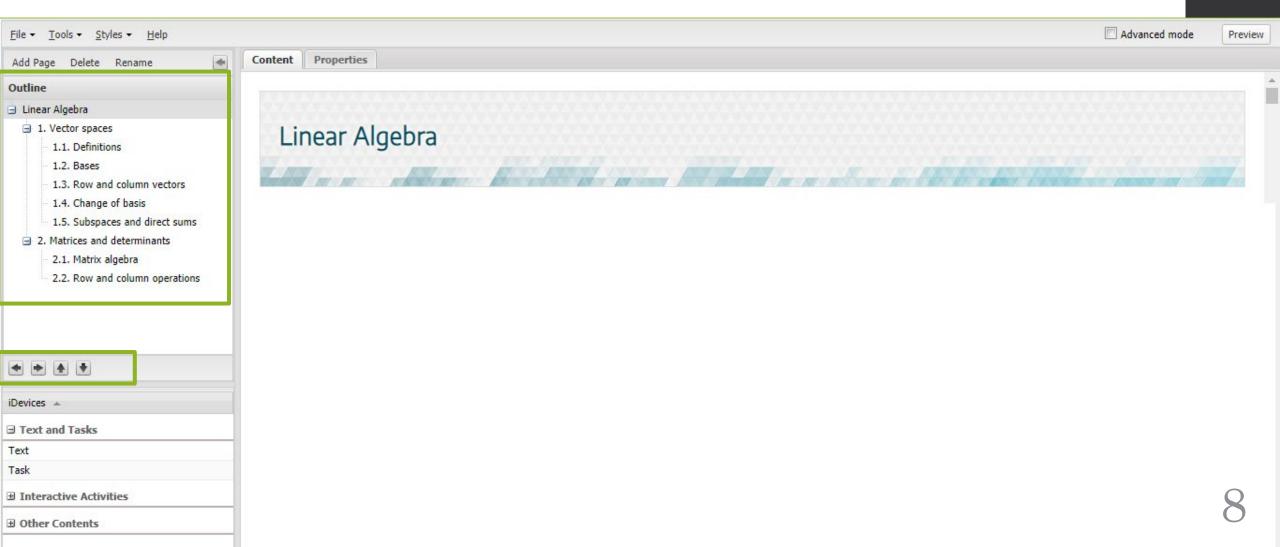


Preferences		×
Select Language: Select Browser:	en: English 💌 Google Chrome 💌	ie
Save	Show this window on eXe star	rt

3. eXeLearning work environment **@@** and structure

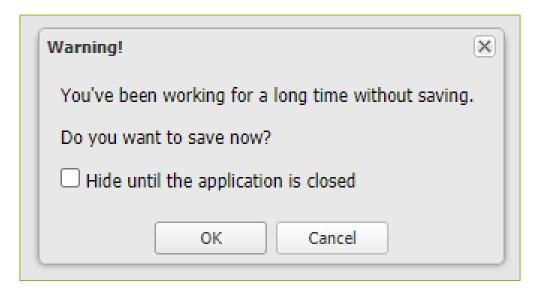
<u>F</u> ile ▼ <u>T</u> ools ▼ <u>S</u> tyles ▼ <u>H</u> elp		Menu					C Advanced mode	Preview
Add Page Delete Rename	•	Content Properties						
Outline Home								
Content structure		Home						
		Click on the elem	nents of the left pa	anel to add content.				×
iDevices			Editing zo	one				
 	-							
iDevices		(cc) BY-SA Licer	nsed under the <u>Creativ</u>	ve Commons Attribution Sha	re Alike License 4.0			7

3. eXeLearning work environment **See** and structure





Warning!



3. eXeLearning work environment **See** and structure

Content	Propertie	es			
Package	Metadat	ta Export			
— Catalogu	uing ———				
Title:		Linear algebr	a	<u></u>	
Languag	e:	English		▼ 1	
Objecti Prekno	al:	and linear from the o or skew-sy 1. Solve sy 2. Carry ou 3. Demons	maps to construct the theory of bilinear forms i.e. functions of two	e calculations with matrices. The abstract component builds on the notions of subspaces variables which are linear in each variable, dual spaces (which consist of linear mappings e applications involve ways to reduce a matrix of some specific type (such as symmetric an elimination and matrix inversion.	
Author:			Department of Mathematics		
License:			creative commons: attribution - share alike 4.0	▼ 1	
Learning	Resource 1	Туре:	guided reading	✓ 1	

3. eXeLearning work environment **@@** and structure

Usage —				
Intended End User	:	Ordinary Learner	Special Needs Learner	Gifted Learner
For Group Work:				
For Individual Tuiti	on:			
Context:		Classroom	Real Environment	
Modality:		Face to Face	Blended	Distance
- Taxonomy			Project Properties Header Background:	Comp
Level 1:	Торіс			Comp
Level 2:	Section			
Level 3:	Unit		Footer: Department of Mathematic	de Image Clear Image Tile background image?
Update Tree				



Text and Tasks Activity

Case Study

iDevices 🔺

Free Text

Objectives

Preknowledge

Reading Activity

Reflection

Interactive Activities Cloze Activity DropDown Activity GeoGebra Activity Interactive Video Java Applet Multi-choice

Multi-select

SCORM Quiz

Scrambled List

True-False Question

Other Contents	
Download source file	
External Web Site	
File Attachments	
Image Gallery	
Image Magnifier	
Wiki Article	



iDevices 🔺	
Text and Tasks	
Activity	
Case Study	
Free Text	
Objectives	
Preknowledge	
Reading Activity	
Reflection	



Text and Tasks: Free Text

Free	Tex	t 😰																				
Edi	it –	Ins	ert		Form	nat	 Table - 	Tools	÷													
	4		*	B	1		Paragraph	Ŧ	E	Ξ	∃		P	\$2	:=	Ŧ		Ŧ			53 29	
Th	iese	note	s ar	e ab	out li	inea	ar maps and b	bilinear	forms	s on ve	ector	space	s, hov	v we r	epre	sent	then	n by	mat	trices, h	now we manipulate them, and what we use this for.	
~	^	X 4			Mo	ve	То			~	Ð											
1	1. \	Veo	cto	or	sp	a	ces	-			1											

These notes are about linear maps and bilinear forms on vector spaces, how we represent them by matrices, how we manipulate them, and what we use this for.

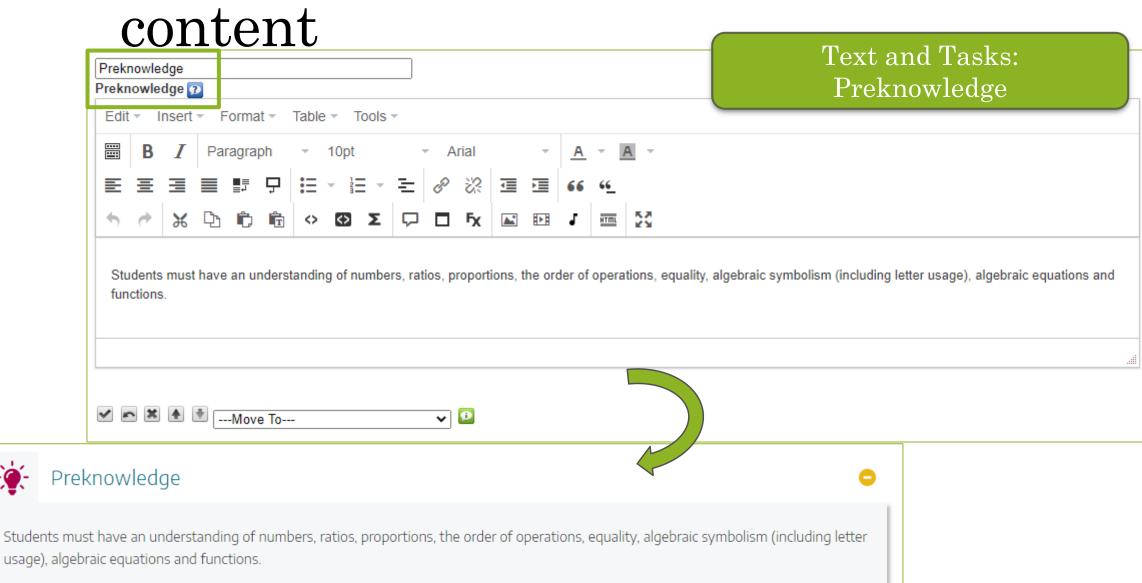


15

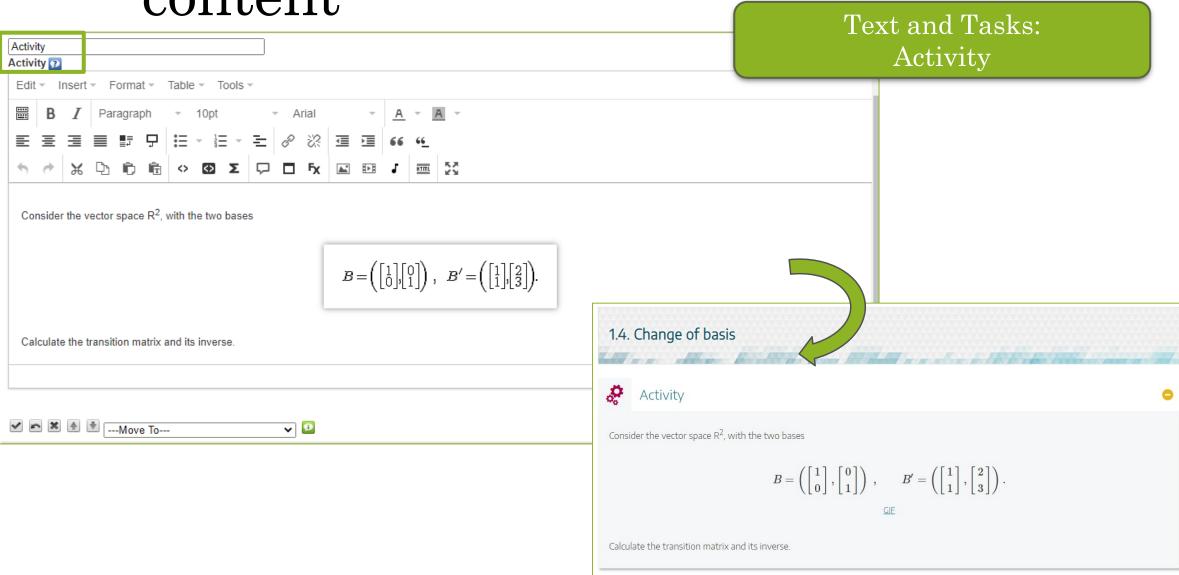
· ·	Dbjectives Dbjectives											Text and Tasks Objectives				٥.								
Edit	 Inse 	ert 👻	Forr	nat 👻	Tabl	le 👻 .	Tools	Ŧ														 		
•••	↑	÷	B	Į F	Paragra	aph	-	E	E 3		P	았	ŧΞ	•	= -	.		5.7 2 3						
	1. Solve 2. Carry											Gauss	sian eli	imina	tion ar	nd mat	rix inv	ersion.						
	3. Demo	onstra	te un	dersta	nding	of the o	conce	ots of v	ector	space a	nd sub		э.											
	4. Demo	onstra	ite un	dersta	nding	of linea	ar inde	pender	ce, s	oan, an	d basis	3 .										 		
	**	•	Mo	ove To)				✓ []												 		
	ear Alg			ove To)				<													 		
		gebr	a	ove To)				~] []	-8		<i>.</i>					4						
Lin 😨	ear Alg	gebr ctive	Ta S	equat	ions usir	-			luding		n elimin	ation ar	nd matr	, inve	ersion.			¢						
Lin 😨	ear Alg Object Solve syst Carry out Demonstri	gebr ctive tems o : matrix rate ur	Ta S ≪opera adersta	equat tions, i nding	ions usir ncluding of the co	g inverse oncepts	es and o of vecto	letermin or space	cluding ants. and su	Gaussia ospace.	n elimin	ation ar	nd matr	rix inve	ersion.			•						
Lin	ear Alg Object Solve syst Carry out	gebr ctive tems o : matrix rate ur rate ur	S f linear opera ndersta	equat tions, i nding nding	ions usir ncluding of the co of linear	g inverse oncepts indeper	es and o of vecto ndence,	letermin or space span, ar	cluding ants. and su d basis	Gaussia ospace.	n elimin	ation ar	nd matr	rix inve	ersion.			¢						
Lin	ear Alg Object Solve syst Carry out Demonstr Demonstr	gebr ctive tems o matrix rate ur rate ur rate ur rate ur rate ur nciples	G S f linear < opera ndersta ndersta nvalues of mai	equat tions, i nding nding s and e rrix alg	ions usir ncluding of the co of linear genvect ebra to l	inverse oncepts indeper tors and linear tra	es and c of vecto ndence, I solve e ansform	letermin or space span, ar eigenvalu	cluding ants. and su d basis	Gaussia ospace. ems.	n elimin	ation ar	nd matr	rix inve	ersion.			¢						

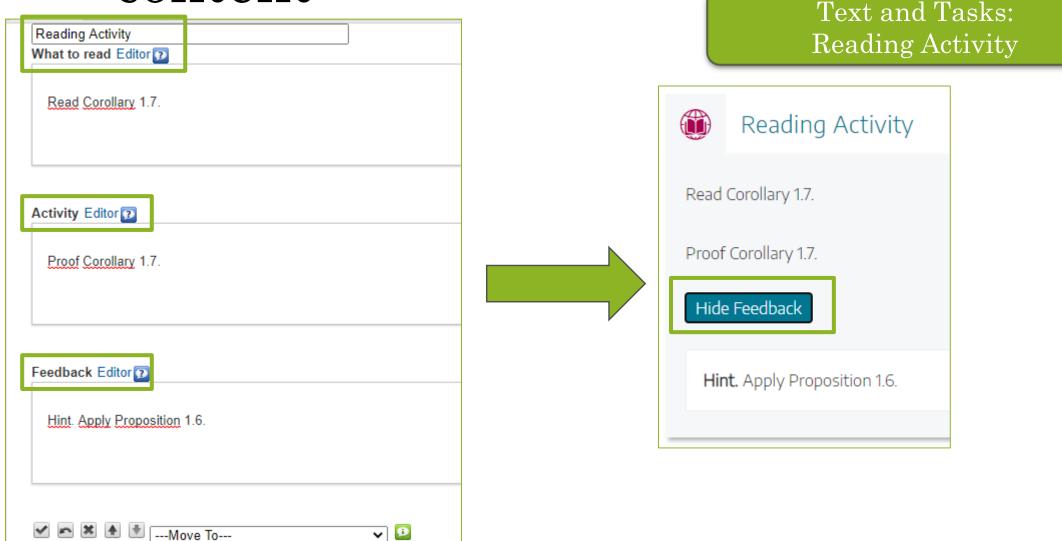
4. Creation and editing of digital



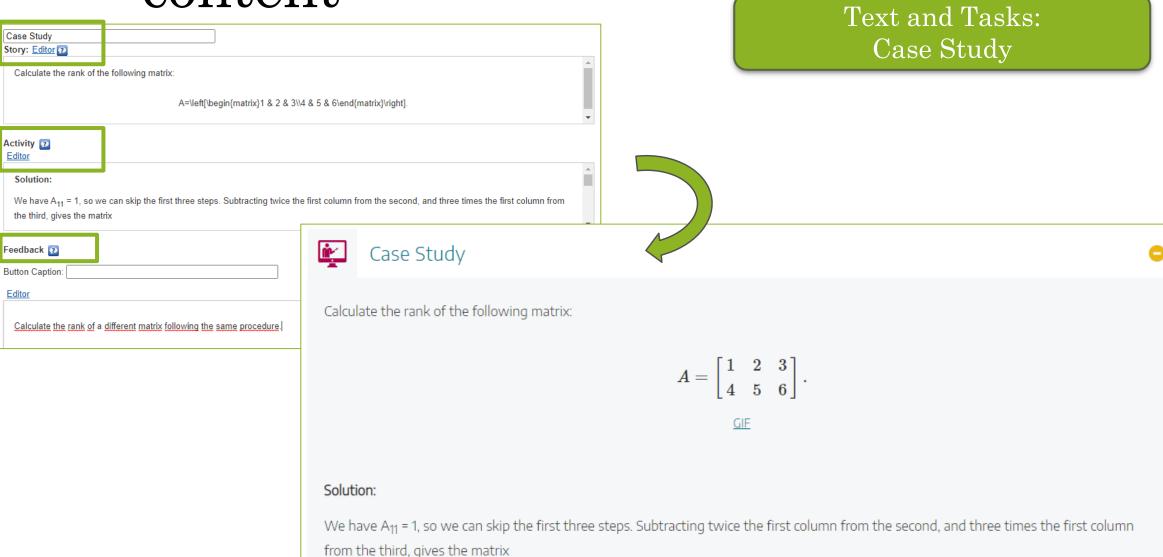


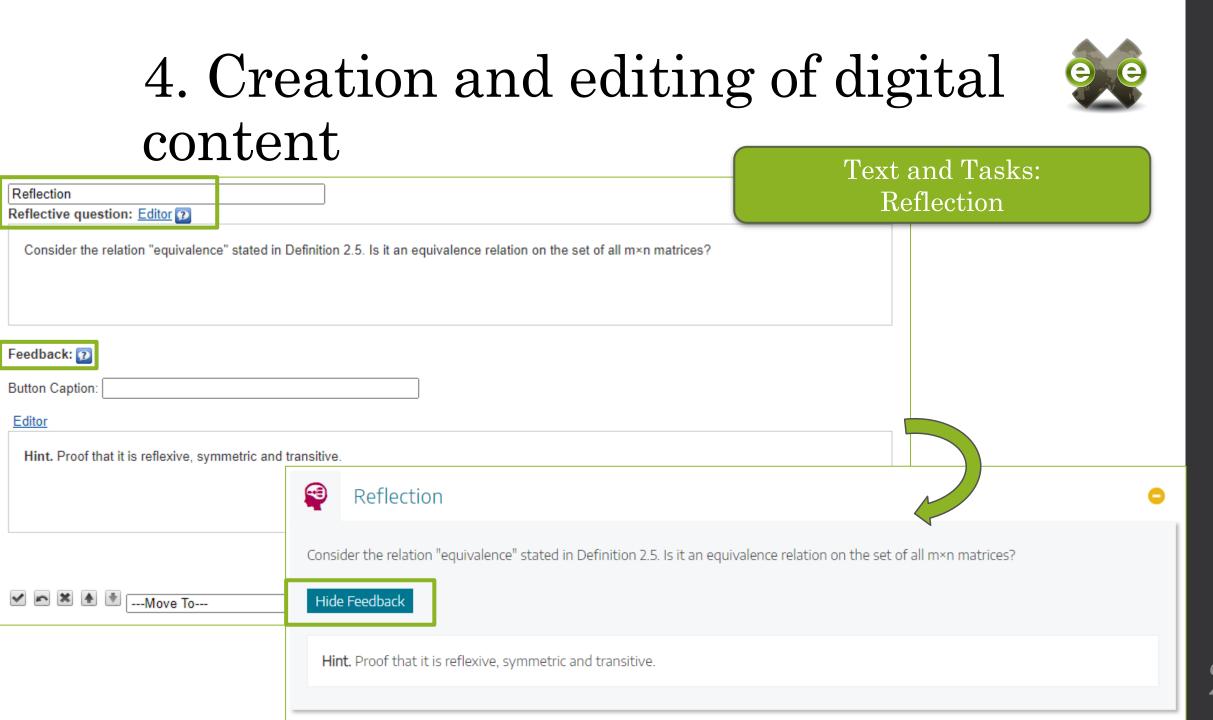






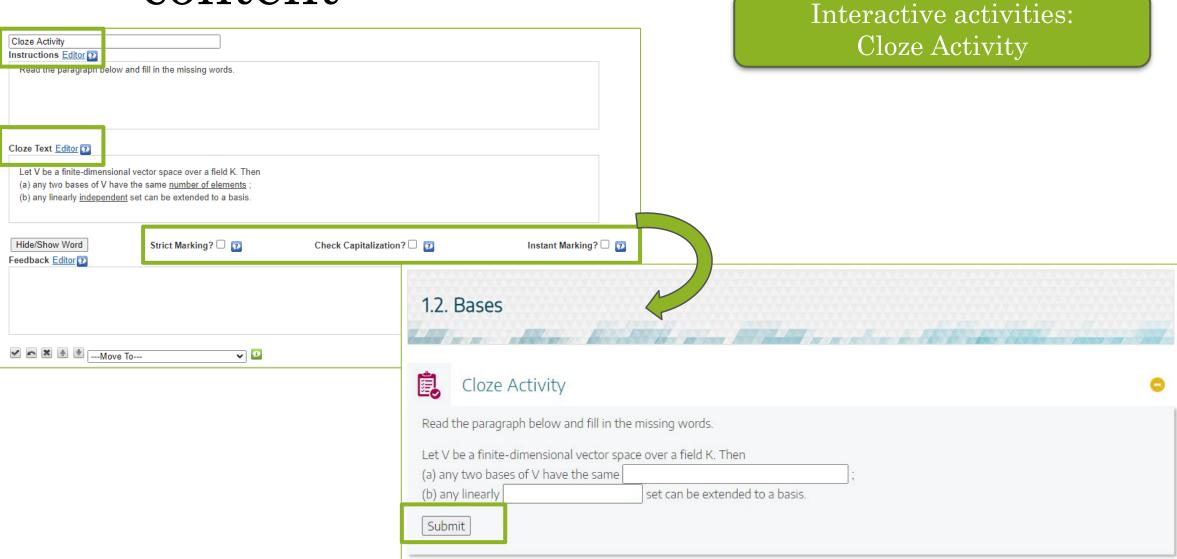




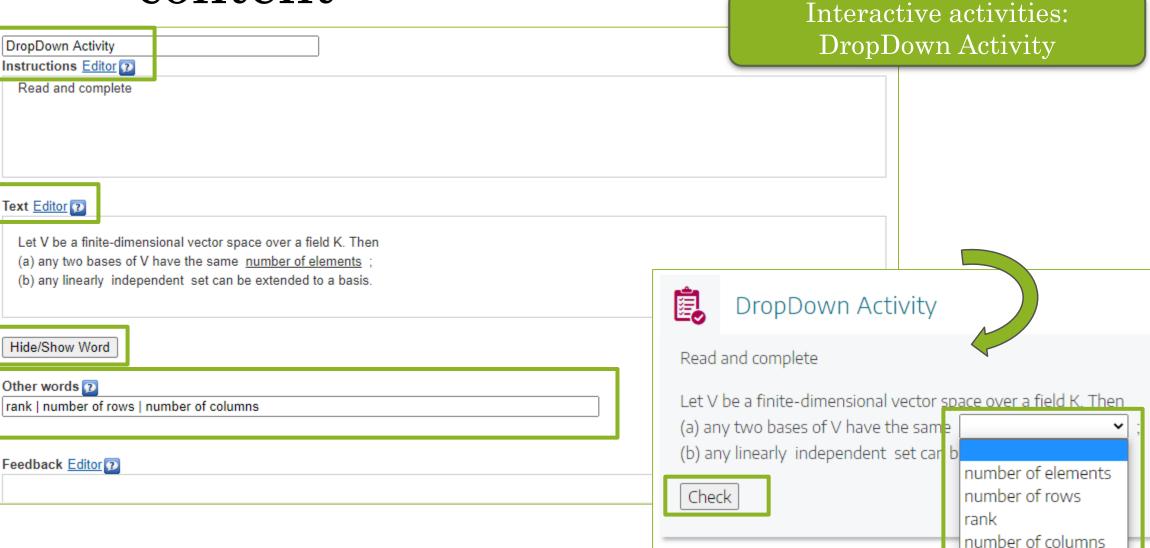




∃ Interactive Activities
Cloze Activity
DropDown Activity
GeoGebra Activity
Interactive Video
Java Applet
Multi-choice
Multi-select
SCORM Quiz
Scrambled List
True-False Question



22



23

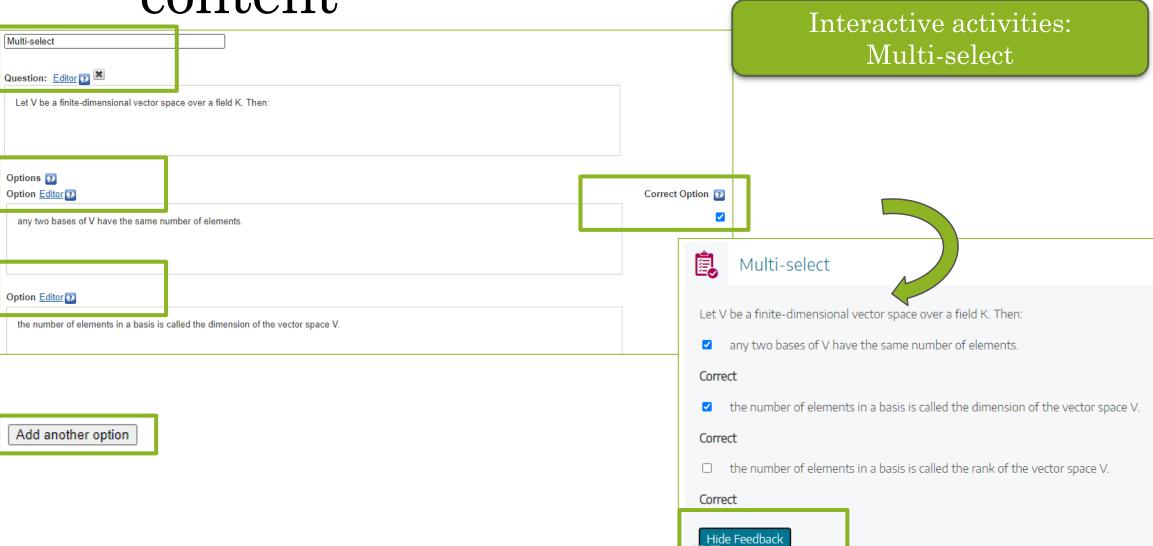


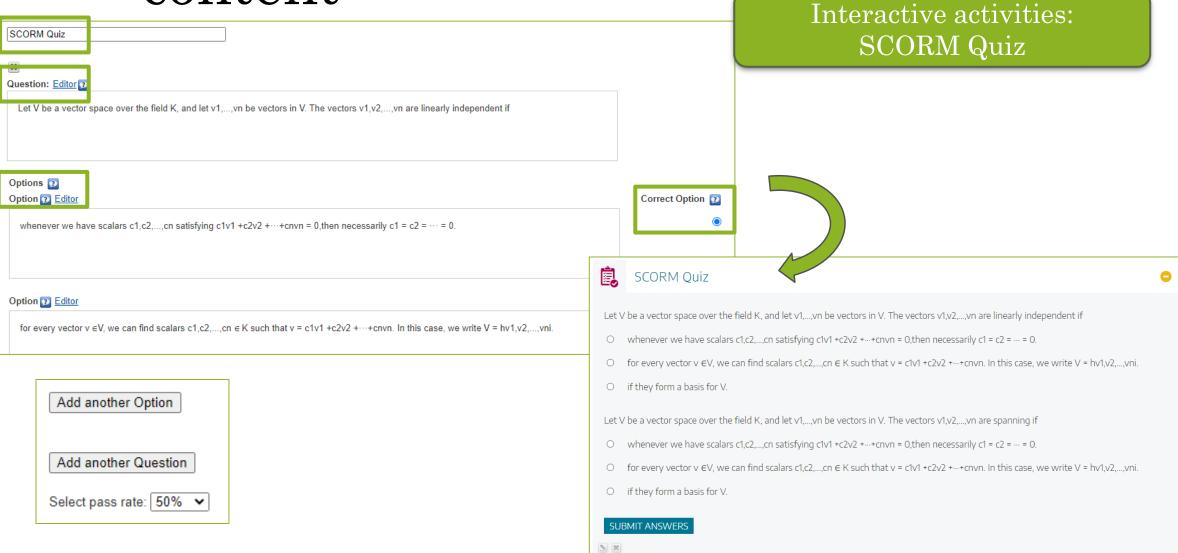
COILCIIL	Interactive activities:
True-False Question	True-False Question
Instructions Editor 2	
Indicate if the following statement is true or false:	
Question: Editor	
The number of elements in a basis is called the dimension of the vector space V.	True-False Question
True False	Indicate if the following statement is true or false: The number of elements in a basis is called the dimension of the vector space V.
Feedback Editor This statement is true (see Corollary 1.4.).	● True O False
	Correct This statement is true (see Corollary 1.4.).

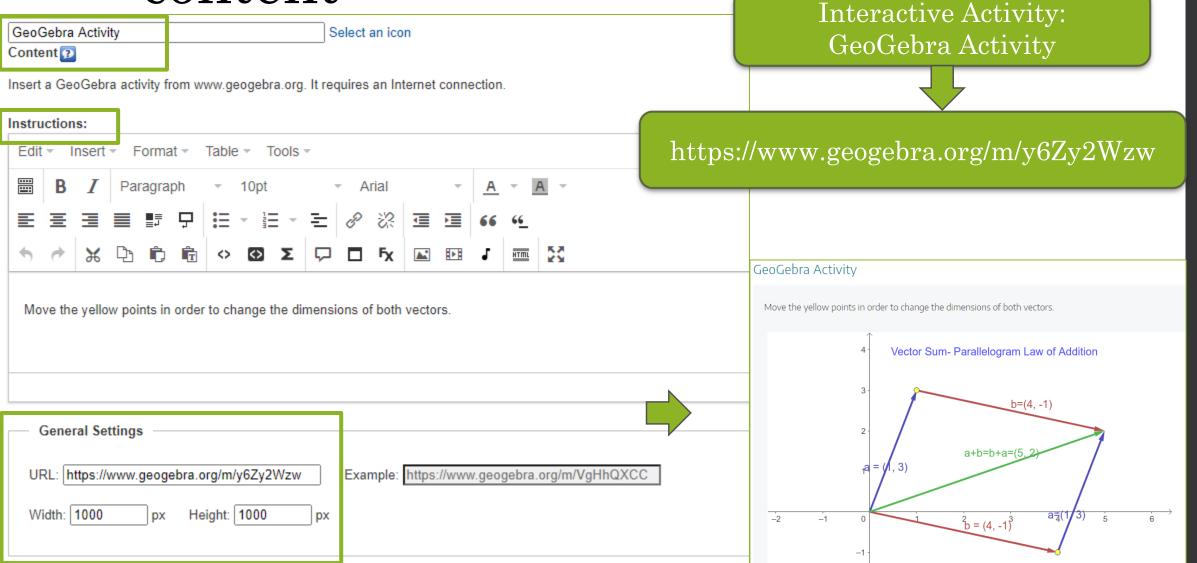
4. Creation and editing of digital



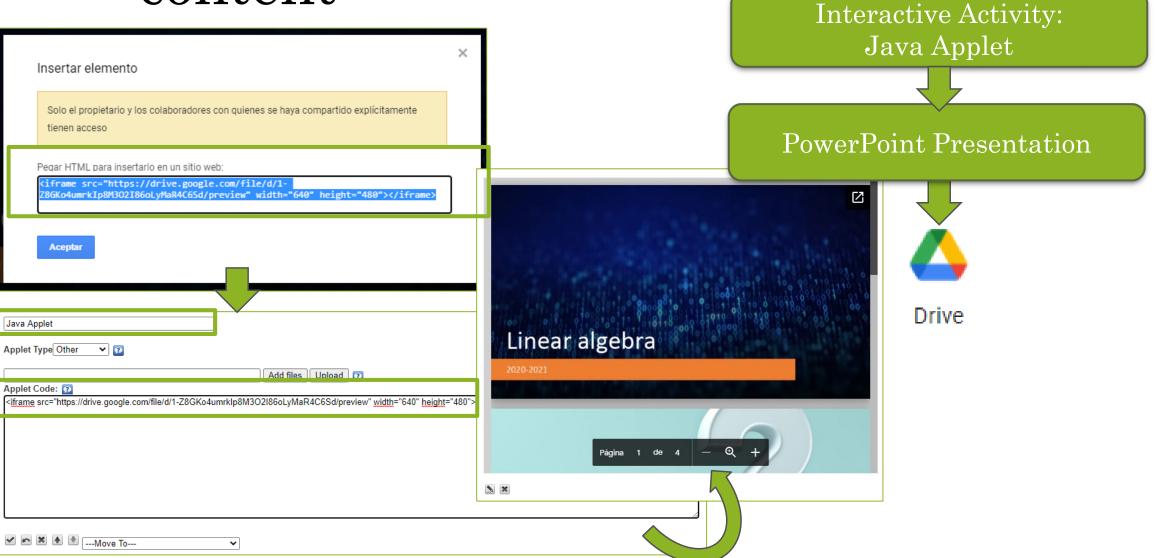
	Interactive activities:
Multi-choice	Multi-choice
Let V be a <u>finite</u> -dimensional vector <u>space over</u> a <u>field</u> K. <u>Then</u> :	
Hint Editor 2	
Option 2 Editor any two bases of V might have different number of elements.	Correct Option 2
	Multi-choice
	Let V be a finite-dimensional vector space over a field K. Then:
Add another option	O any two bases of V might have different number of elements.
Add another option	• the number of elements in a basis is called the dimension of the vector space V.
	O the number of elements in a basis is called the rank of the vector space V.
	Correct Option



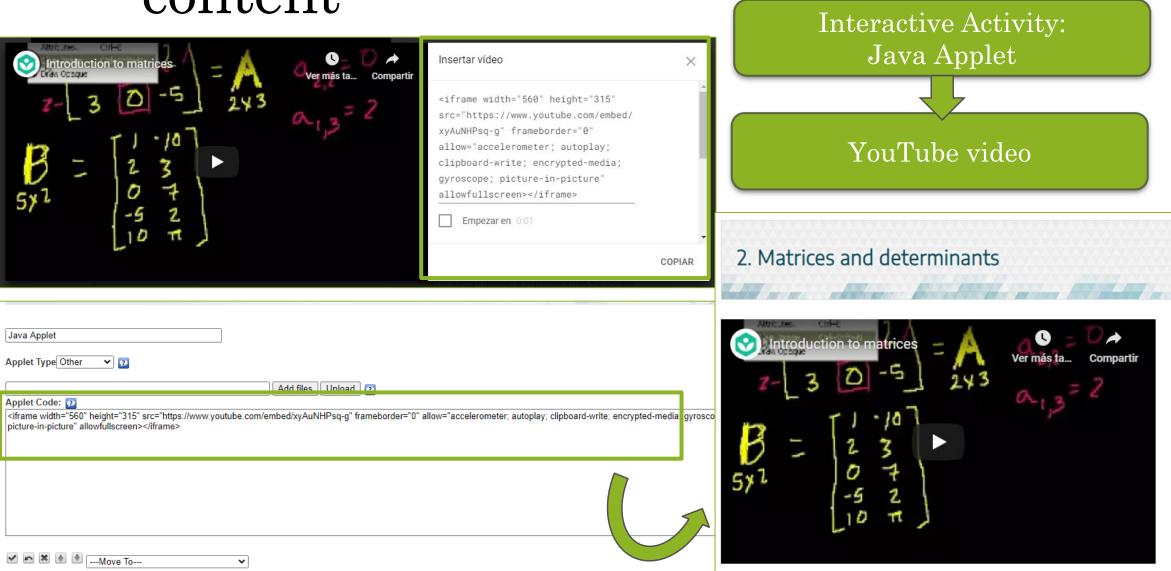


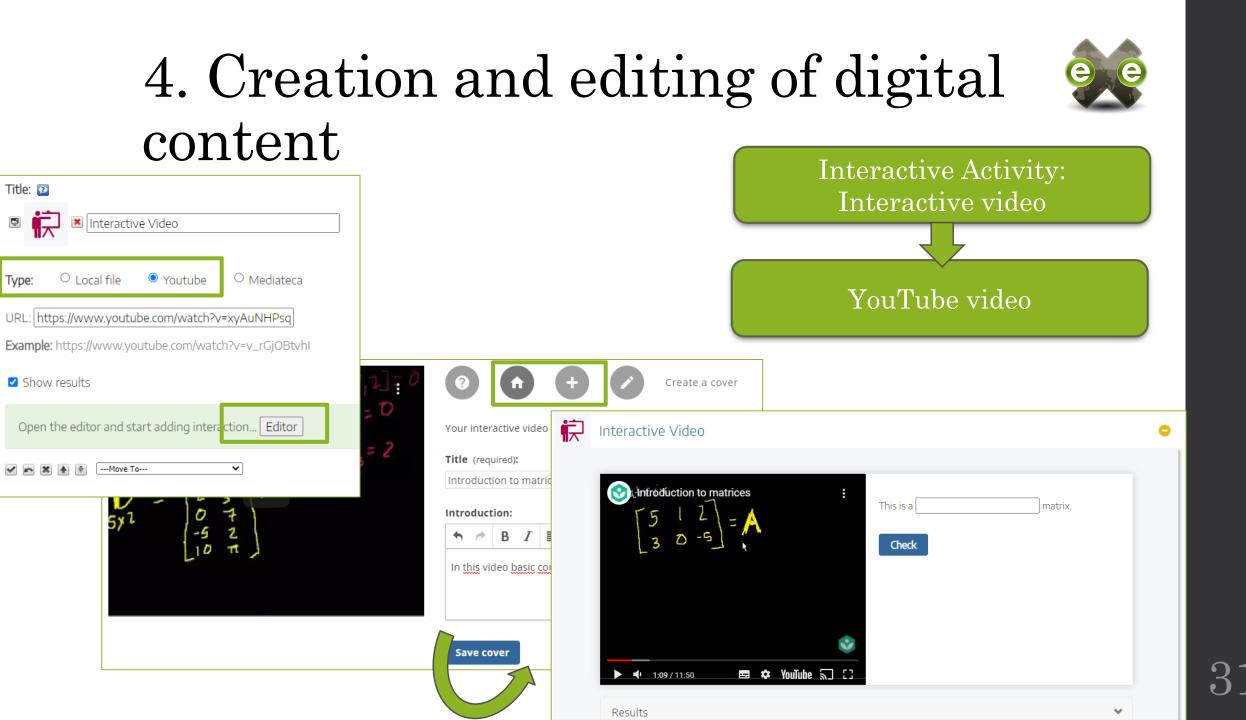






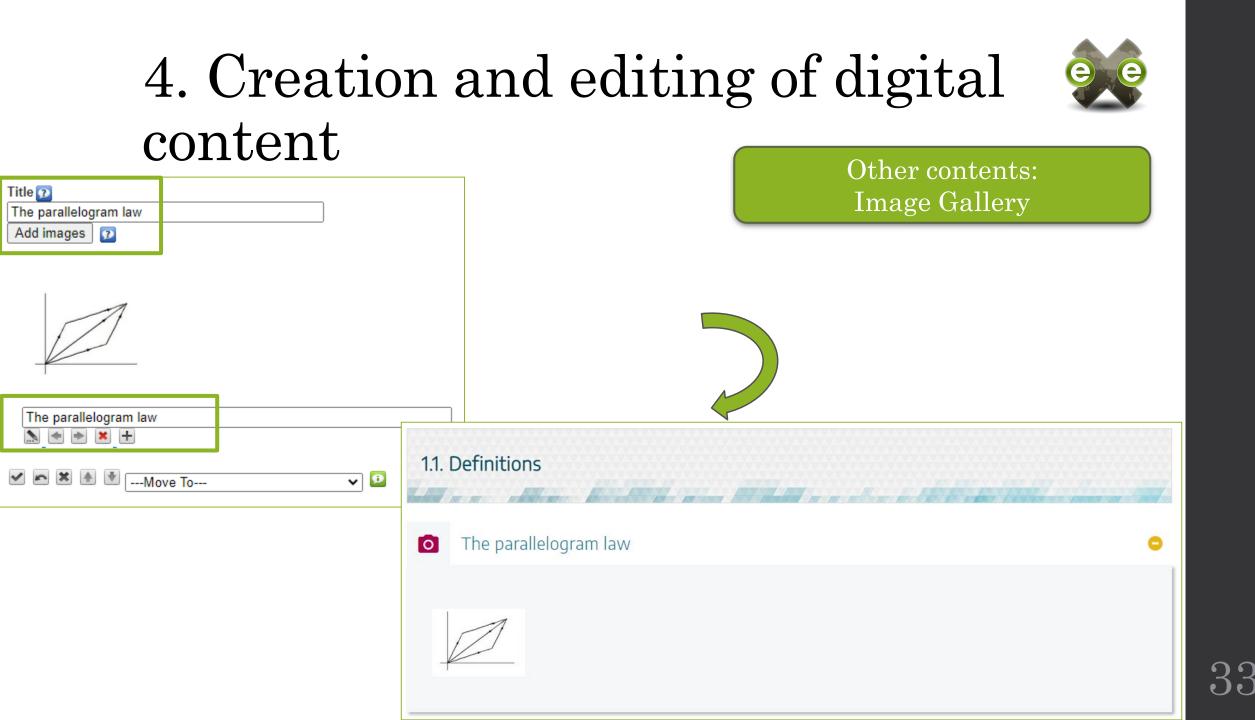




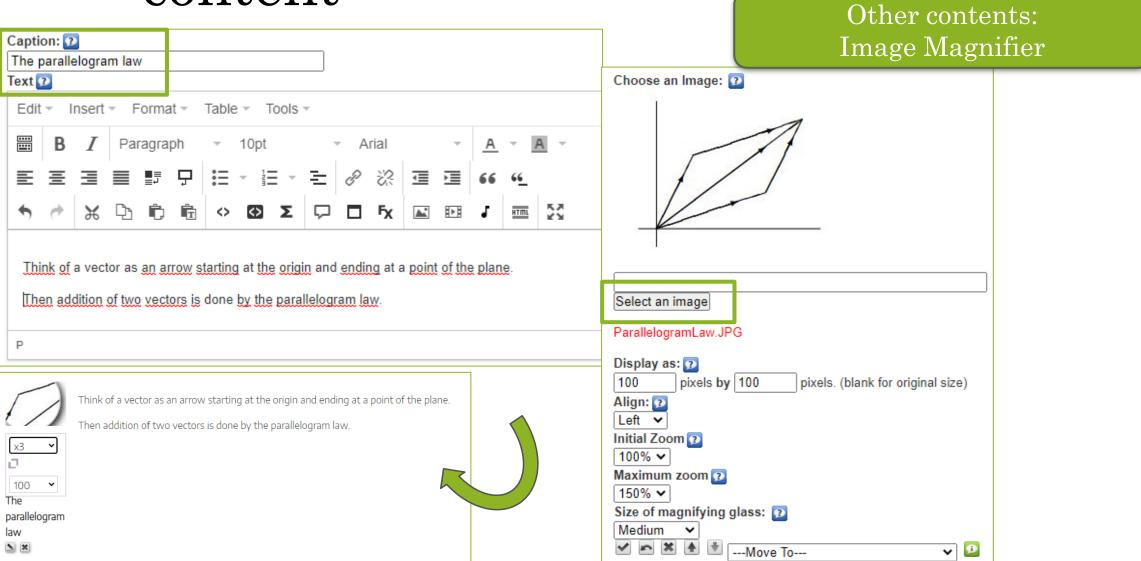


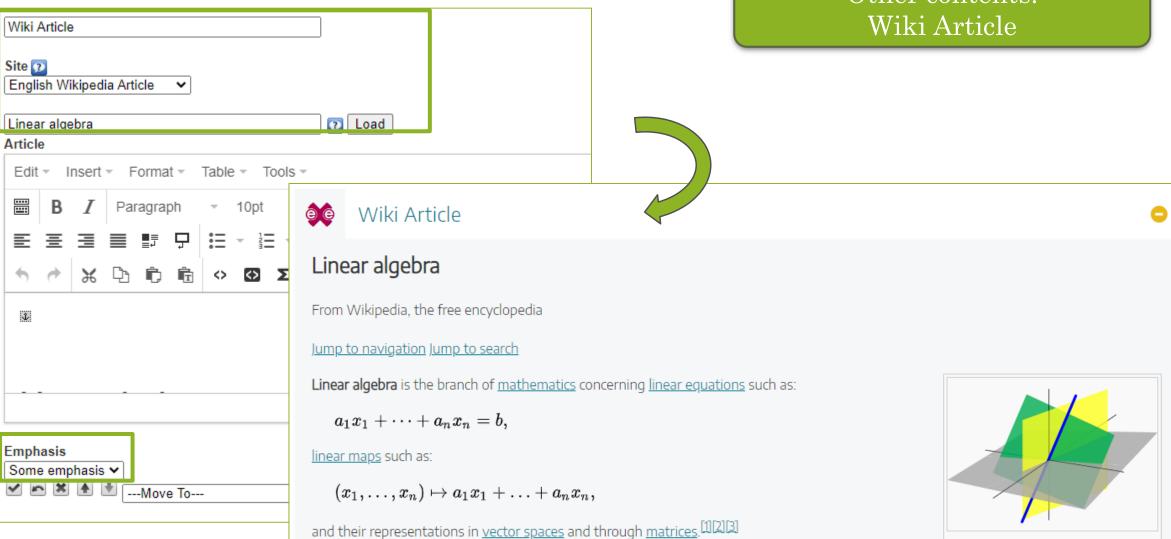


☐ Other Contents	
Download source file	
External Web Site	
File Attachments	
Image Gallery	
Image Magnifier	
Wiki Article	

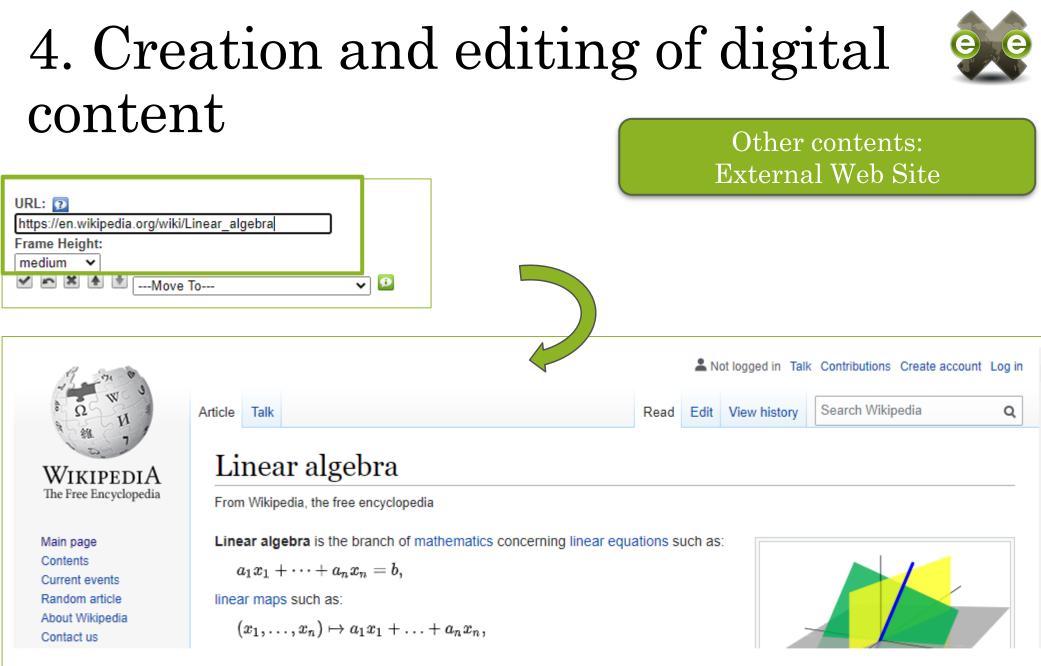


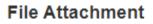






35





Here you can attach arbitary files to the package that will be included with the export

You can choose to display links or not below

Title:
File Attachments
Show description and link
Yes 🗸

Instructions 😰

Ρ

Edit • Insert • Format • Table • Tools •

••••	В	I	Pai	ragra	ph	Ŧ	10pt			A	rial		~	<u>A</u>	- 1	A -
E	Ξ	⊒		≣≡ ∎≡	Ģ	Ξ	-	-	₹	P	\$2	Ţ		66	6 <u>6</u>	
•	0	ж	þ	Ê,	Ê.	<>	<>	Σ	P		Fχ			J	HTML	23

In the following file you can find the contents of this unit.

Other contents: File attachments

File Attachments

In the following file you can find the contents of this unit.

cursos_TeComp.pdf (New Window)

		_
<u>кл</u>	Description	
	cursos_TeComp.pdf	
	File: cursos_TeComp.pdf	
	Add Another File Attachment	

G:\Proyecto TeComp\Curso Diciembre2020\cursos_TeComp.pdf Browse Upload 😰

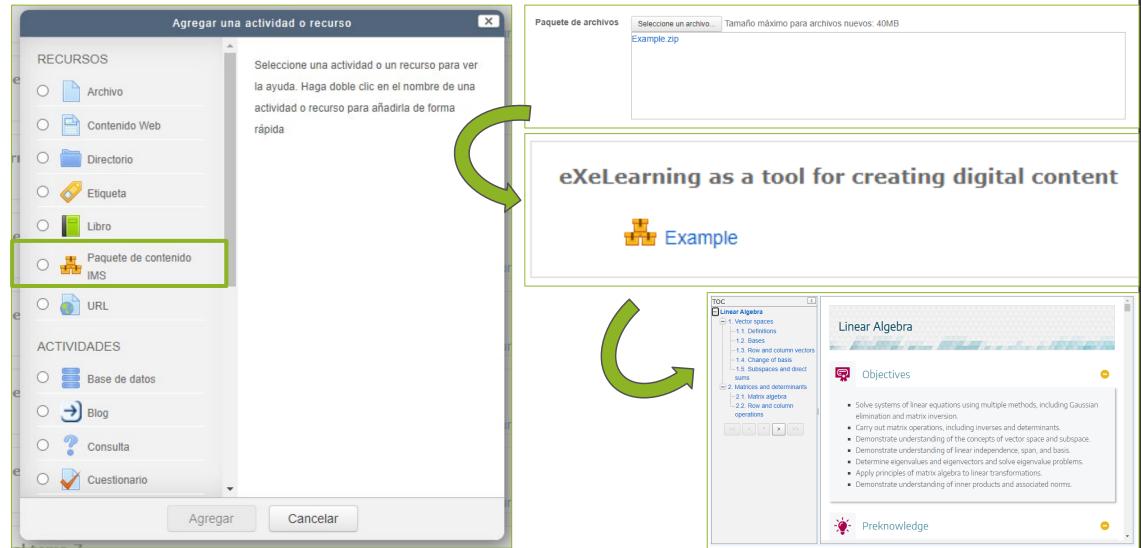
5. Export content created with eXeLearning



<u>F</u> ile •	 <u>T</u>ools → <u>S</u>tyles 	÷	<u>H</u> elp	
	<u>N</u> ew	⊳	me	•
	<u>O</u> pen			
	Recent Projects	▶		
	<u>S</u> ave			
	S <u>a</u> ve As		in vectors	
	Templates	₽	is	
	<u>E</u> xport	Þ	l direct sums 1inants	
	<u>P</u> rint			-
	Quit			
iDevi	ces 🔺			
🗄 Te	xt and Tasks			
🗄 In	teractive Activitie	5		

<u>F</u> ile -	<u>T</u> ools • <u>S</u> tyles	•	<u>H</u> elp)		
	<u>N</u> ew	⊧	me		•	Co
	<u>O</u> pen					
	Recent Projects	₽			*	
	<u>S</u> ave					3
	S <u>a</u> ve As		in veo	tors		
	Templates	₽	is			
	<u>E</u> xport	♦	Ldiror	Web Si <u>t</u> e		
	<u>P</u> rint			Single Pa	ge	
	Quit			EPUB <u>3</u>		
iDevic	es 🔺			SCORM		_
± Tex	t and Tasks			ĪWS		
Tex	t and Tasks			Ť1.12		

6. Upload eXeLearning content to a course in Moodle





Attention!

<u>File - T</u> ools - <u>S</u> tyles -	ļ
<u>N</u> ew ▶	me
<u>O</u> pen	
<u>R</u> ecent Projects ▶	H
<u>S</u> ave	
S <u>a</u> ve As	n
Templates 🕨	is
e <u>E</u> xport ▶	l d 1ir
<u>P</u> rint	
Quit	
iDevices 🔺	



eXe has finished running in this window.



You can close it safely.

Module 2A. eXeLearning as a tool for creating digital content

• TeComp

Laura Muñiz Rodríguez

munizlaura@uniovi.es

University of Oviedo





Universidad de Oviedo Universidá d'Uviéu University of Oviedo