

# **Final Annotated Mindmap on TELTA Module Supporting Documentation for Links and Notes**

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## **Assessment Description**

Overall Assessment (See Paragraph 2 below)

<https://dittelta.wordpress.com/assessment/>

(2) Participants will be required to apply in theory what has been discussed and reviewed over the course of the module that they themselves are involved with (for example, in a development/teaching capacity). To evidence this, participants must submit an annotated mindmap of that module indicating where, why and how technologies could be integrated within their teaching, learning and assessment practices so as to enhance, modify and transform the teaching, learning and assessment experiences of the student. Participants can work on this assessment on a weekly basis or it can be completed when all of the module topics have been covered: in this way participants can arrange their study commitment around their busy work schedules.

## **Supporting Documentation**

- The *General Syllabus* document below describes the entire Leaving Certificate Ordinary Level syllabus and is used as a reference document by teachers.
- The *Geometry Syllabus* document below describes all of the Geometry Syllabuses for Junior and Leaving Certificate at Foundation, Ordinary and Higher Levels and is used as a reference document by teachers.
- The *Teacher Handbook* below will be used as a source of ideas for lesson plans.
- The *Scheme of Work* below describes the Geometry 1 Module to be taught. This is an 8 week module from Weeks 26 to 33 inclusive. It is proposed to have a Summative e-Assessment as part of the Summer Exams during Week 34 using <https://www.thatquiz.org>.
- The *eBook* below will be used predominantly as a source of questions for students.
- The *Structure of the Leaving Certificate Mathematics Syllabus* below shows that it is comprised of five strands. Geometry and Trigonometry is known as Strand 2.

## **General Syllabus Document**

Leaving Certificate Mathematics Syllabus

[http://www.ncca.ie/en/Curriculum\\_and\\_Assessment/Post-](http://www.ncca.ie/en/Curriculum_and_Assessment/Post-Primary_Education/Project_Maths/Syllabuses_and_Assessment/LC_Maths_English_2013.pdf)

[Primary\\_Education/Project\\_Maths/Syllabuses\\_and\\_Assessment/LC\\_Maths\\_English\\_2013.pdf](http://www.ncca.ie/en/Curriculum_and_Assessment/Post-Primary_Education/Project_Maths/Syllabuses_and_Assessment/LC_Maths_English_2013.pdf)

Note: See page 25.

## **Geometry Syllabus Document**

Geometry Course for Post-primary School Mathematics

[http://www.ncca.ie/en/Curriculum\\_and\\_Assessment/Post-](http://www.ncca.ie/en/Curriculum_and_Assessment/Post-Primary_Education/Project_Maths/Project_Maths_syllabuses/Geometry_PMaths_Sept_10.pdf)

[Primary\\_Education/Project\\_Maths/Project\\_Maths\\_syllabuses/Geometry\\_PMaths\\_Sept\\_10.pdf](http://www.ncca.ie/en/Curriculum_and_Assessment/Post-Primary_Education/Project_Maths/Project_Maths_syllabuses/Geometry_PMaths_Sept_10.pdf)

Note: See pages 59 - 60 for Theorem 6 (16), page 61 for Theorem 7 (17), page 62 for Theorem 8 (18), page 65 for Theorem 9 (20), page 67 for Theorem 10 (21).

## **Teacher Handbook**

Teacher Handbook: Senior Cycle Ordinary Level - 5th & 6th Year

<http://www.projectmaths.ie/documents/handbooks/LCOLHandbook2015.pdf>

Note: See Section 4 pages 7 - 8.

## **Scheme of Work**

Leaving Certificate Ordinary Level (Transition Year)

<http://www.gerardkilkenny.ie/sow-ty-ol.pdf>

Note: See pages 4 - 5.

## **eBook**

<http://my.cjfallon.ie/ebooks/20172-Supplement.pdf>

Note: See Chapter 11 (Geometry 1) pages 302 - 331.

## **Structure of the Leaving Certificate Mathematics syllabus**

It comprises five strands:

1. Statistics and Probability
2. Geometry and Trigonometry
3. Number
4. Algebra
5. Functions

Note: See General Syllabus Document page 8 for description of Geometry and Trigonometry strand.

## **Research (Learning Theories)**

Cognitivism

Constructivism

Van Hiele Model

<http://www.gerardkilkenny.ie/paper.pdf>

<http://www.gerardkilkenny.ie/van-hiele.pdf>

## **Research (GeoGebra)**

The Effects of GeoGebra on Students Achievement

<http://www.sciencedirect.com/science/article/pii/S1877042815003936>

The Effects of GeoGebra on Mathematics Achievement: Enlightening Coordinate Geometry Learning

<http://www.sciencedirect.com/science/article/pii/S1877042810022007>

Applications GeoGebra into Teaching Some Topics of Mathematics at the College Level

<http://elib.mi.sanu.ac.rs/files/journals/csis/12/060209.pdf>

## **Research (Mobile Learning)**

Mobile Learning: Not Just Another Delivery Method

Link:

<http://www.adlnet.org/wp-content/uploads/2012/12/12079.pdf>

APA Reference:

Berking, P., Haag, J., Archibald, T., & Birtwhistle, M. (2012). Mobile learning: Not just another delivery method. In *Proceedings of the 2012 Interservice/Industry Training, Simulation, and Education Conference*.

**Note:** The above reference was gleaned from the extra material supplied on **Webcourses** for Lesson 4 of the Instructional Design & eAuthoring module of the MSc in Applied eLearning.

## **Research (e-Assessment)**

e-Assessment

Link:

<https://www.amazon.com/Contemporary-Perspectives-Learning-Research-Practice/dp/0415393949>

APA Reference:

Sclater, N., Conole, G., Warburton, B, & Harvey, J. (2007). E-assessment. In G. Conole & M. Oliver (Eds). *Contemporary perspectives in e-learning research: themes, methods and impact on practice*. Routledge.

## **Tools for Teaching and Learning**

Geogebra (PC)

<https://www.geogebra.org>

GeoGebra (iPad)

<https://itunes.apple.com/ie/app/geogebra/id687678494?mt=8>

Unidoodle

<http://www.unidoodle.com>

## **Tools for Assessment**

### *Summative Assessment*

ThatQuiz

<https://www.thatquiz.org/>

Unidoodle

<http://www.unidoodle.com>

### *Formative Assessment*

Unidoodle

<http://www.unidoodle.com>

## **Tools for Mindmapping**

Mindomo (General Info)

<https://www.mindomo.com>

Mindomo (Organigram)

<https://www.mindomo.com/mindmap/organigram-da8099020eea4b328aa39b5612ded27e>

Why Mindomo (PCMag.com Editor's Choice)

<http://uk.pcmag.com/mindomo-5-premium/21313/review/expert-software-applications-mindomo>

## **Mindomo Link**

<https://www.mindomo.com/signup.htm?invite=eb0daf4e9c7d45639164ee4d0c7099a2&join=5sZm6C&cmp=404861&src=1>