

A GENESIS OF 3 LEARNING DESIGN STUDIOs

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Centre for Information Technology in Education University of Hong Kong

LDS

Learning Design Studio

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Welcome to Learning Design Studio!

Learning Design Studio is an integrated purpose-built design platform with an express goal to enhance the quality of teachers' lesson and assessment design and to improve their lesson design, planning and implementation efficiency. It is an innovative product building on cutting edge findings on pedagogies and assessment and informed by learning sciences research.



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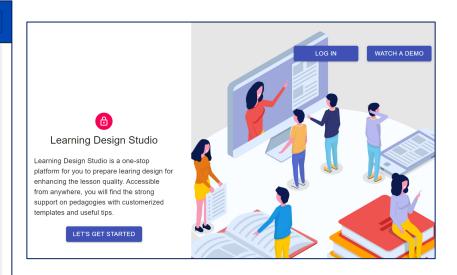
LDSHE

Learning Design Studio

A tool to support teaching professionals in the design and implementation of fully online and blended courses.



LDS-STEM



http://lds.cite.hku.hk

Tailored to support <u>Science/STEM</u> teachers to design curriculum units that promote <u>self-directed learning</u> in students.

http://ldshe.cite.hku.hk

A generic learning design tool that differentiate clearly three levels of design, to be guided by three levels of pedagogical considerations: philosophy, approach and tactics.

Under development: lds@cite.hku.hk

Building customized versions of LDS that provide pedagogical support for different segments of learning designers, starting with LDS-STEM

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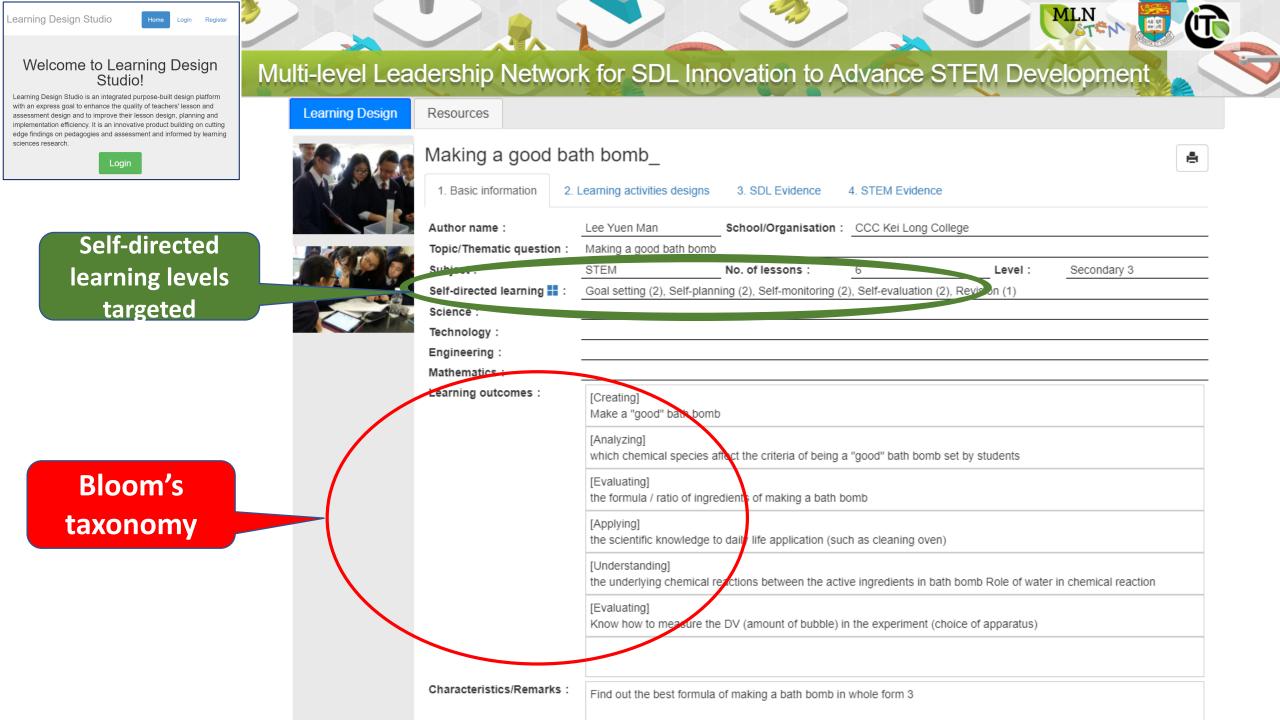
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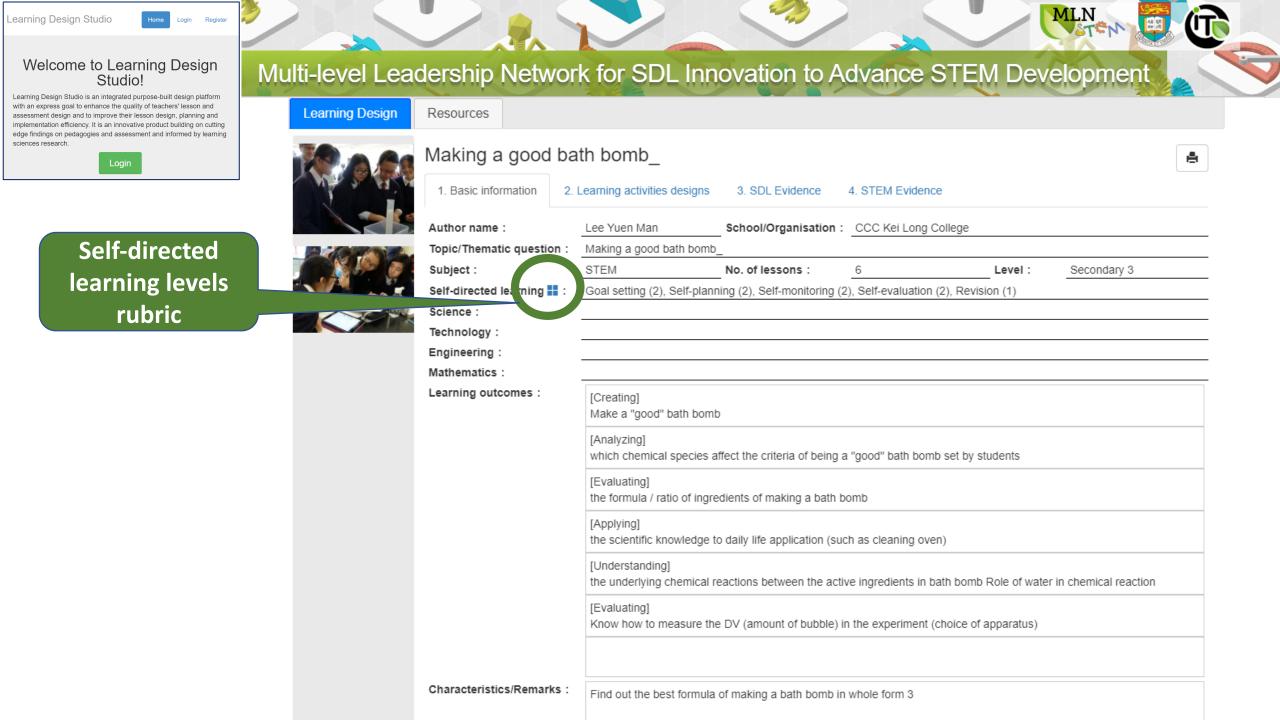
Public Designs

Account Settings

Public Designs

Creator name	Topic/Thematic Question	Subject ÷	Level ÷	Time Created +	Time Modified 🗧 🕈	Actions
cpscss	環保太陽能車探究 I Goal setting, Revision, Self-evaluation, Self-managing, Self-planning 重嘉諾撒小學(新蒲崗)	常識	小五	Sat Nov 11, 2017 14:27	Fri Jan 17, 2020 13:19	Options -
sze hung cissy	如何利用環保物料製作一輛迷你太陽 能車 I Revision, Self-managing, Self-planning Self-evaluation, Goal setting 重 聖公會阮鄭夢芹銀禧小學	11-2	小六	Wed Oct 30, 2019 16:09	Thu Jan 16, 2020 7:39	Options →
z7ys	Follow procedures and conduct experiment Not available Mot available	General Studies	Primary 6	Wed Jul 10, 2019 15:56	Wed Jul 10, 2019 15:56	Options -
Lillian	淨水行動一一濾水器設計 ❀ Goal setting, Revision, Self-evaluation, Self-managing, Self-planning 盦 天神嘉諾撒學校	科學/常識	小四	Tue Aug 14, 2018 20:30	Wed Jul 3, 2019 10:44	Options -
Lillian	Science of bread_R ⑤ Goal setting, Revision, Self-evaluation, Self-managing, Self-planning 盦 中華基督教會基朗中學	Science/General Studies	Secondary 2	Wed Jun 26, 2019 11:40	Wed Jun 26, 2019 11:41	Options -
Lillian	粉嶺圍保育遊 喙 Goal setting, Revision, Self-evaluation, Self-managing, Self-planning 盦 粉嶺公立學校	Cross Disciplines Project/STEM	Primary 6	Wed Feb 27, 2019 15:46	Mon Jun 24, 2019 16:03	Options -
sze hung cissy	如何製作一個高效能的迷你吸塵機?	常識 I,	五年級	Sat Jun 18, 2016 10:21	Sat Jun 8, 2019 15:53	Options -
Jackie	轉廢為能:尋找咖啡渣的第二生命 ♥ Goal setting, Revision, Self-evaluation, Self-managing, Self-planning	Integrated Science	Secondary 1	Wed Mar 13, 2019 11:25	Fri May 24, 2019 10:02	Options -





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Multi-level Leadership Network for SDL Innovation to Advance STEM Development

MLN

Learning Design Resources

Auth Topic Subj Self- Scie Tech Engi Math Lear	Goal-setting	 TEACHERS Decide all learning activities to be carried out, may not communicate goals to students. STUDENTS Given explicit directions on what to do, how and when to do it. Do not have opportunities to discuss the learning goals, and may not know why they are doing the activities. 	 TEACHERS Share with students the learning goals to achieve through the designed activities. STUDENTS Given the opportunities to discuss the learning goals. Given the opportunities to articulate their understanding of the link between the learning goals and the activities. 	2 STUDENTS Discuss the problem set by the teacher. Formulate questions and generate inquiries relevant to the set problem. TEACHERS Pose a problem/ challenge to students. Guide and encourage students in exploring the problem to generate inquiry questions.	 STUDENTS Identify and articulate a problem (close to everyday life) they wish to tackle/explore. Generate, discuss and refine questions for investigation with some teacher support. TEACHERS Act as co-learner to raise questions and prompts. Provide encouragement/support when difficulties are encountered. STUDENTS
Char	Self- planning	 Coach students step by step through the learning activities. Does not discuss the activities as a plan for achieving a goal. STUDENTS Follow instructions to 	 Provide a set of planned activities for students to address the learning goal. STUDENTS Given the opportunities to discuss the plan from 2 perspectives: 	Collaborate with peers to develop a plan of activities/inquiry procedures and needed resources based on the general method/materials given by the teacher.	 Collaboratively develop an inquiry plan with the steps, resources and precautions listed. Collaborate to identify possible methods/ approaches to achieve the targeted learning goal

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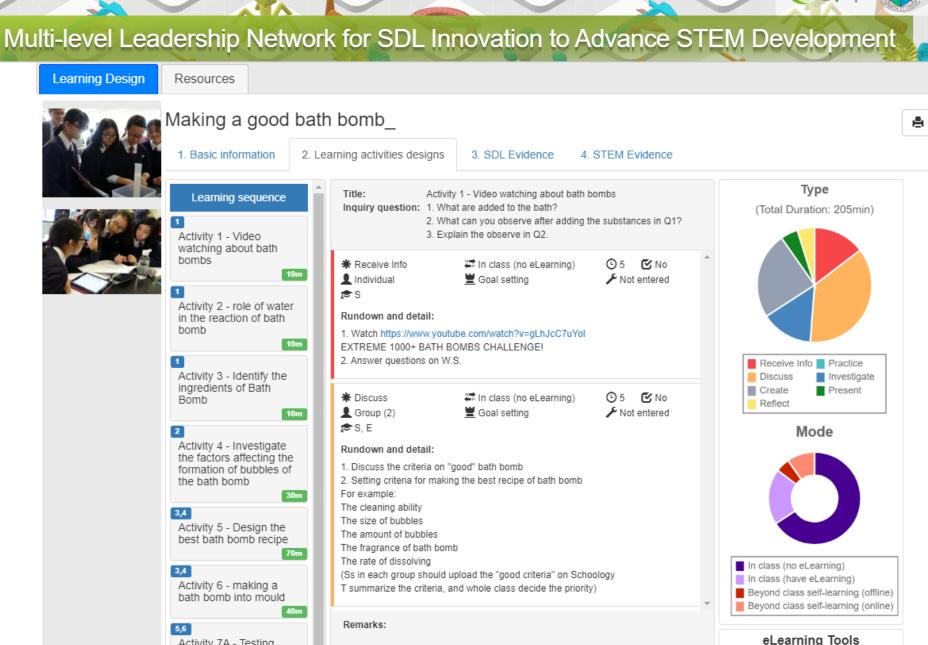
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MLN

Forum Database

Poll

Mind map

Activity 7A - Testing method for the amount of bubbles

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Making a good bath bo	mb			ľ
	activities designs	3. SDL Evidence	4. STEM Evidence	
Goal setting Self-planning Sel	elf-monitoring Se	If-evaluation Rev	vision	
Goal setting	Students observed they made one for	themselves.	a hara a hara 1 Port 2,2028 at 2.10 am texted	efore
				9
	Group3 Members:V		11:17 am Iterials to make more amount of bubbles,also the more citric acid and baking soda that we add,the	

Multi-level Leadership Network for SDL Innovation to Advance STEM Development

MLN

man 18, 2018 at 11:18 am

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Studio! Learning Design Studio is an integrated purpose-built design platform with an express goal to enhance the quality of teachers' lesson and assessment design and to improve their lesson design, planning and implementation efficiency. It is an innovative product building on cutting edge findings on pedagogies and assessment and informed by learning	Multi-level Leadership Network for SDL Innovation to Advance STEM Develop Learning Design Resources	oment
sciences research.	Making a good bath bomb 1. Basic information 2. Learning activities designs 3. SDL Evidence 4. STEM Evidence	
	Year Engineering Mathematics Image: Science Strate Science In Soft recepts because they Science In Soft r	

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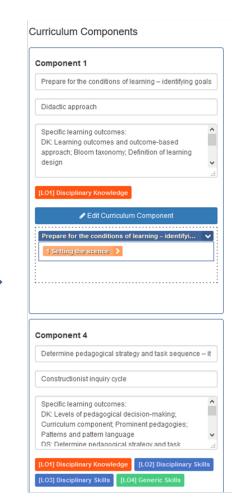
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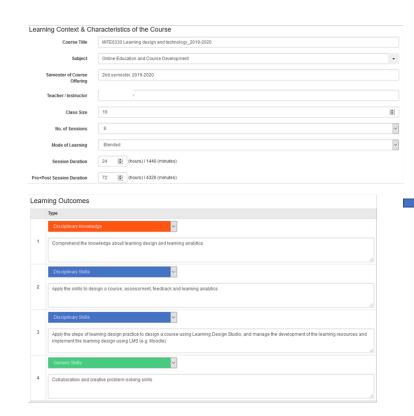


Course/unit/ module Curriculum component 1 Task 1 Task 2 Task 3 Task 4 Curriculum component 2 Curriculum component 3 Curriculum component

Hierarchical levels of learning design

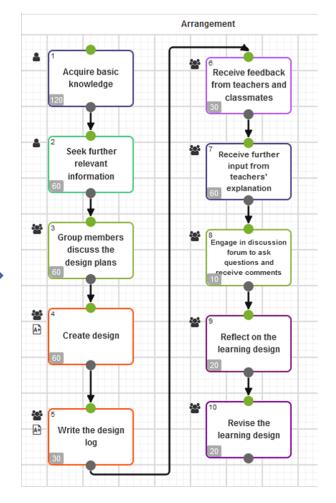






Course level

Curriculum component level



Task level

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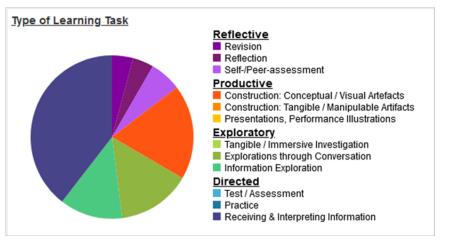
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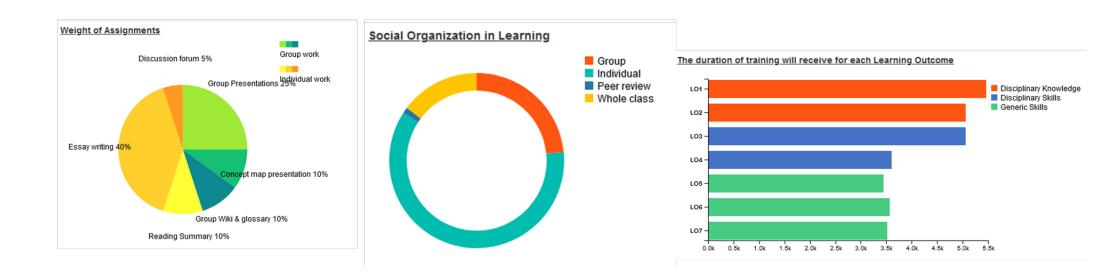
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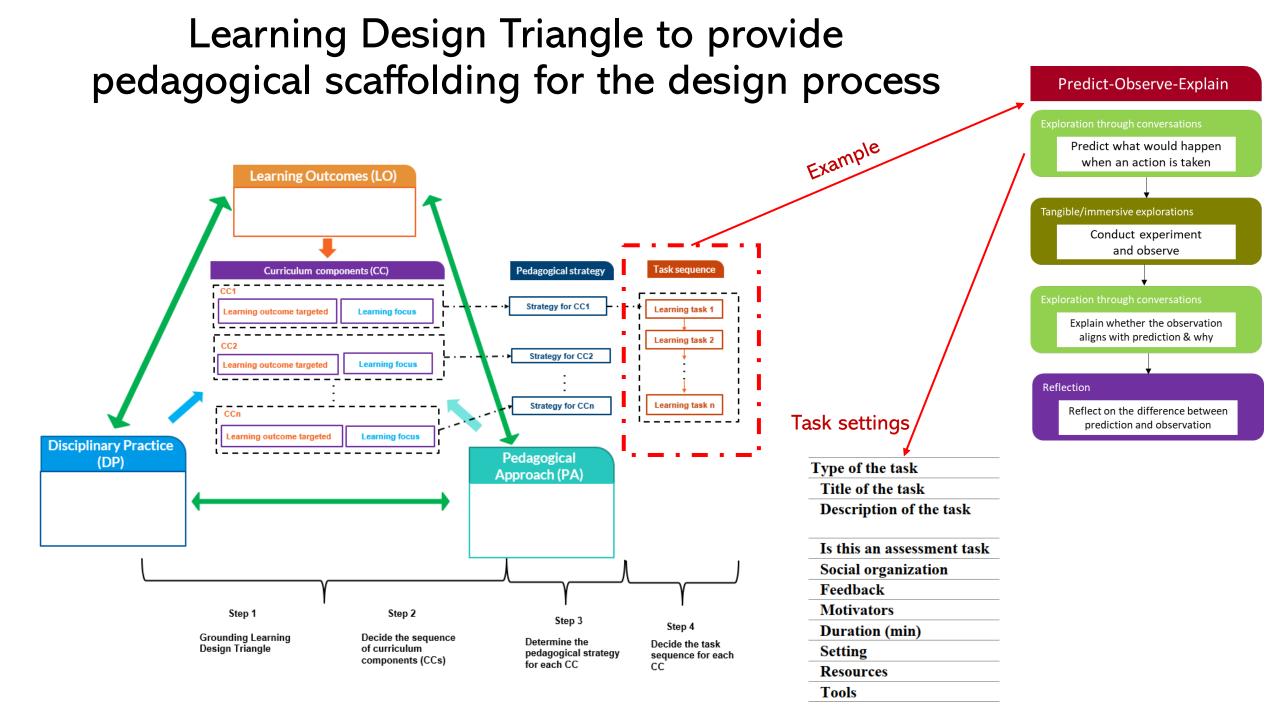


Designer dashboard to monitor design progress

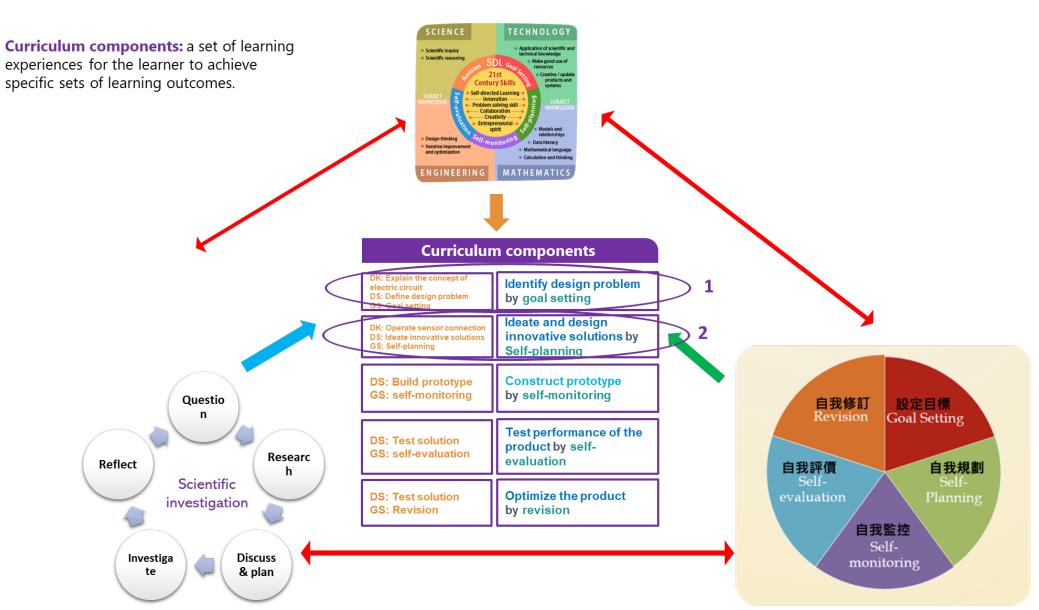


- Proportion of time spent by learners on different activity types
- Weight of Assignments
- Proportion of learning time by social organization of learning activities
- Time Organization for the face-to-face class and selfdirected study after classes.





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Join us to explore further:

- Do you think it is helpful to enforce and scaffold learning design as a multilevel process?
- Do you have a preference for any of the three versions of LDS?
- What do you consider as the most important features of a learning design tool for teachers?