



MODULE 3 LEARNER-CENTERED PRIMARY EDUCATION: ENHANCING CO-CREATED LEARNING PROCESSES

3.3 SELF-DETERMINATION, EMPOWERMENT AND SELF-EFFICACY





Learner-Centered Primary Education: Enhancing Co-Created Learning Processes. Self-Determination, Empowerment and Self-Efficacy.

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Introduction

What is the CONTESSA course?

The CONTESSA course is one of the results of the "Contemporary Teaching Skills for South Asia" project cofunded by the Erasmus+ Program of the European Union. Its aim is to be a contribution to establishing successful teacher education programs for primary teachers, particularly in Cambodia and Sri Lanka, which will create a long-lasting positive impact on the overall educational systems.

It is increasingly important for successful educators to stay up-to-date with contemporary skills and methods to use inside and outside of the classroom. The CONTESSA course therefore offers five carefully selected modules, each of which contain three focuses aimed at the development of contemporary teaching skills. The modules and their focuses are as follows:

Module 1. Building Blocks of Primary Education

- 1. Twenty-First Century Teaching and Learning
- 2. Lesson Planning and Methodological Skills: Concepts, Tools and Application
- 3. Designing Learning Environments

Module 2. Excellence in Teaching: Profession-Specific Competences of Primary School Teachers

- 1. Teaching Comprehension: Roles, Tasks and Functions
- 2. Assessing Learning Results
- 3. Pedagogical Professionalization

Module 3: Learner-Centered Primary Education: Enhancing Co-Created Learning Processes

- 1. Individual Development and Problem-Solving Skills
- 2. Lifeworld-References and Future Prospect
- 3. Self-Determination, Empowerment and Self-Efficacy

Module 4: Embracing the Differences: Pedagogic Approaches to Diversity, Heterogeneity, Special Needs

- 1. Inclusive Pedagogy: Approaches and Strategies
- 2. Teaching and Learning in Diversity: Preparation, Realization, Assessment
- 3. Diversity-Sensitive Classroom Management

Module 5: Digital Teaching and Learning

- 1. E-Pedagogy and Digitally Enhanced Learning Environments
- Digital Media and Technology: Tools and Formats for Educational Purposes
- 3. Online-Based Lesson Preparation and Conduction

Upon completion of this course, participants will be able to implement newly acquired contemporary teaching skills, engage all students in classroom activities and learn new ways to help students reach their full potential.

Who is the CONTESSA course for?

The "Contemporary Teaching Skills for South Asia" project aims at promoting contemporary teaching skills for preservice and in-service teachers working in primary schools. The following document is specifically adapted for pre-service teachers.

Furthermore, the CONTESSA course is available for anyone interested in staying up-to-date with contemporary teaching skills.

This is the English version of the CONTESSA course. Material is also available in Khmer, Sinhala and Tamil.

What is the structure of the CONTESSA course?

As mentioned before, the CONTESSA course consists of five modules, each worth the equivalent of 3 ECTS. Ideally, the modules are all used together since individual modules refer to other modules, but they are also designed in a way that each one can be used on its own.

Each module contains three thematic focuses and documents are available for each focus. This makes a total of 15 documents available in the CONTESSA course. Each document contains a theoretical introduction to the focus, followed by practice exercises based on the theory. STEP 1 - THEORY - is meant as a revision of what has been read in the theoretical introduction. Practice exercises check the comprehension of the text to make sure that the underlying theory has been understood. STEP 2 -**EXPERIENCE** – offers examples of real teachers and how they practically implement the theory explained in the theoretical introduction. These examples are again connected to practice exercises which are meant to allow for the application of the previously learned theoretical knowledge. STEP 3 - (SELF-)REFLECTION - includes reflection questions based on each focus. STEP 4 -**PRACTICE** – is the final STEP where a teaching project is created based on what has been seen before in STEPs 1 and 2.

The practice exercises in STEPs 1 and 2 can be directly completed in this document. STEPs 3 and 4 are part of a separate portfolio document which has to be created by each individual. A template for this portfolio is available as a separate document.





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1 ROLE OF THE TEACHER IN DEVELOPING EMPOWERED STUDENTS

The changing demands and expectations of the twenty-first century have required a major reappraisal of educational practice. Traditional top-down (teacher-led) approaches with the teacher as the 'expert' and the students as passive listeners are now generally recognised to be inadequate for the preparation of upcoming generations. Today's students are entering a socioeconomic environment which requires increasing flexibility and adaptability and the capacity for life-long learning (Murdoch & Wilson, 2008).

This shift to **learner-centered teaching** environments means that the teacher is no longer the 'expert' but rather a supportive guide or facilitator for their students. There is the need for a less hierarchical, more democratic learning environment with teachers helping students get in touch with who they want to be and what they want to accomplish in the world. This requires a change in both the mind-set and the skill-set of teachers and students. Students should become less dependent on their teachers and more independent as individuals whilst being open to inputs not only from their teachers but also from their classmates and others (Chu, Reynolds, Tavares, Notari, & Lee, 2017).

To facilitate this shift, teachers should aim to serve as catalysts to empower their students by bringing out their creativity and by making learning an attractive challenge, rather than a requirement (Chu et al., 2017). It is important to note that this is not an excuse for teachers to shift responsibility and expect their students to teach themselves. Instead, there is the basic expectation that teachers remain actively involved in helping their students but with a paradigm shift from 'How do we teach?' to 'How can we help them learn?'

Learnercentered teaching refers to forms of instruction that [...] give students opportunities to lead learning activities [...] and generally contribute to the design of their own course of study. (The Glossary of Education Reform, 2014, online)





Central to the effective implementation of this shift to empowered students is the need for concrete and practical steps for teachers to help students on the path to empowerment and self efficacy. Teachers are tasked with cultivating learning environments in which power is shared and students' self-efficacy is encouraged.

If our students are to be successful, they will need to find work that is as satisfying to the human spirit as it is satisfying economically. As teachers, we need to design learning experiences that help students get in touch with who they want to be and what they want to accomplish in the world. We must include opportunities for all students to build social capital and develop a voice for interaction with people in power positions. They must learn how to create and use professional networks and develop and promote their innovative ideas. (Kallick & Zmuda, 2017, p. 1)

To begin cultivating these types of learning environments, UNESCO & UNODC (2019) state their overall framework for empowering young students to "engage and assume active roles, both locally and globally, as proactive contributors to a more just, peaceful, tolerant, inclusive, secure and sustainable world" (p. 14). Their framework covers three domains that overlap, reinforce and build upon one another on a student's path to becoming empowered. Teachers are responsible for progressively developing the skills, values, knowledge and attitudes across the three domains.



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Figure 1: The Global Citizenship Education Domain of Learning¹

With the same goal of empowerment in mind, Chu et al. (2017) summarize three major categories of skill sets and related components that teachers should be aware of. The first of these, <u>Learning and Innovation</u>, represents the major components associated with traditional teaching and includes critical thinking, communication skills and creativity. The second, <u>Digital Literacy</u>, reflects the increasing importance of information technology (IT) and information literacy skills, with the need to keep up with ever more

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¹ Adapted from UNESCO & UNODC (2019, p. 14). CC BY-SA 3.0.





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complex ways of finding, evaluating, managing, manipulating and sharing data and other information. The third, <u>Life and Career Skills</u>, reflects the need for greater flexibility, initiative, leadership and accountability of individuals as a result of the socio-economic changes arising from globalization.

Chu et al. (2017) also present such conclusions from a different perspective called a 'Formula for Twenty-First Century Learning'. Apart from the continuing importance of 'the 3 Rs' (reading, writing, and arithmetic) an additional seven fundamental sets of skills are listed (see also Trilling & Fadel, 2009):

- Critical thinking and problem-solving
- Creativity and innovation
- Collaboration, teamwork and leadership
- Cross-cultural understanding
- Communication and media fluency
- Computing and ICT fluency
- Career and learning self-reliance

In order for students to become proficient in the skills outlined above, they must have opportunities to engage in meaningful activities delivered through a variety of diverse teaching and learning methods. The following section will elaborate on the different practical methods for teachers to implement in the classroom to pave the way for empowerment.

2 HOW TEACHERS EMPOWER STUDENTS

In order to establish the class as an empowered learning community, there is the need for a more democratic relationship between the teacher and all of the members of the class. The goals of the class as a whole and its individual members should be discussed during the first few meetings, together with any rules, to give a greater feeling of ownership. The need for respect of the





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ideas and opinions of others should be emphasized so as to encourage the participation of all in class activities: such open mindedness will encourage students' risk-taking in offering ideas and suggestions. In this way, a feeling of mutual trust will be fostered: thus discipline should be fair and positive, showing respect for the students involved. The ultimate aim should be to create an engaging learning environment, to build the self-esteem of each member of the class and thus encourage the development of an empowered team spirit.

Each student has their own preferred way of receiving and processing information to develop an understanding and retention of a particular topic. Moreover, this will be influenced by their backgrounds and particular interests: relevance will serve to better emotionally engage learning. Accordingly, students will become better learners through developing an understanding of how they learn: what strategies they find to be the most suitable. This can be done, for example, as part of self-assessment exercises where students review what they have learned and set their own goals for how to proceed further. In this way, with the guidance of their teacher, they can develop and diversify their thinking skills based on the recognition of their particular strengths and areas which need to be developed further (Murdoch & Wilson, 2008).

2.1 Building Trust by Sharing Power

Teacher-student relationships are extremely important to positive student outcomes. Students who trust their teachers are more statisfied at school, have high engagement levels, display positive behaviors and demonstrate the characteristics of empowered students. Teachers who share power with their students and allow their students to see them as 'human' are successful in creating environments where students can thrive. Equity in the classroom is central to building trust (Kirk, Lewis, Brown, Karibo, & Park, 2016).





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In traditional classrooms, students have little choice in the major decisions made about their education (e.g., course content, pace, structure, condition, assessment and important decisions), making them feel disempowered. Teachers should become facilitators of learning rather than leaders. When students have more power over what and how they are learning, they become more confident and realize the power of the learning community they are in, a community that thrives on "communication, interaction, co-construction of knowledge and most importantly, respect" (University of Utah, n.d., online). Ultimately, the less power teachers share, the more dependent students become.

Teachers who share power and build trust are called **autonomy** supportive teachers. One practical measure autonomy supportive teachers take is the use of language that is informational and non-controlling. Table 1 highlights the difference between autonomy supportive and controlling behaviors.

BEHAVIOR	Autonomy Supportive	Controlling
Teacher	"You wrote an engaging	"You completed the
Feedback	story with good structure."	exercise as you were told."
	The students can choose	The teacher chooses the
Student Choice	their groups and the order of	groups and order of the
	the tasks.	tasks.
	The teacher corrects an	The teacher always corrects
Teacher Symbols	assignment with a green or	with a red pen.
	blue pen.	
Longuago	"You could" or "If you'd	"You must" or "You
Language	like"	need to"
	Students are assessed in	Students are assessed with a
Grades	various ways throughout	number grade on every
	the year.	assignment.
	Students can choose how	Students have to finish the
Organization	much time they spend on	tasks when the teacher tells
Organization	certain tasks within a given	them to.
	amount of time.	

Table 1: Autonomy Supportive and Controlling Behaviors²

Autonomy is a form of voluntary action, stemming from a person's interest and with no external pressure. Social environments that support autonomy provide meaningful rationale, acknowledge negative feelings, use noncontrolling language, offer meaningful choices, and nurture internal motivational resources. In classrooms where teachers support autonomy, students improve their academic performance, are

² Adapted from Hofferber, Eckes, & Wilde (2014, p. 179).





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2.2 Utilizing Problem-Based Learning

Problem-based learning (PBL) is a teaching method in which students are asked to solve real-world problems as a vehicle for them to understand larger concepts and principles. PBL is a type of inquiry-based learning which tends to be more long-term and interdisciplinary, often with no definitive answers at the end as a result of the various ways that a diversity of information can be gathered and thereafter compiled and analyzed: inquiries by different individuals mean that different sources and interpretations of their findings are evaluated so that there is no standard output. Seeing the 'big picture' is facilitated by inquiry-based learning, more especially when the assignments have immediate relevance to the students (Murdoch & Wilson, 2008).

Problems can come from a variety of sources, making students aware of local or global issues which directly affect their and others' lives and in all probability their futures. It can be enhanced by the use of local issues and relevant examples to better engage the students, including them as future active citizens. In this way, schools can be part of a wider community, including and actively involving parents and other stakeholders. Moreover, engagement of the students and the local community can be further enhanced if this also involves planning and organizing activities such as fundraising or volunteering for deserving causes. Extra-curricular contributions to these and to organizing school events can be recognized by participating students receiving awards (Murdoch & Wilson, 2008). This may comprise short-term assignments in class or as homework or may be more extensive, being ongoing for much of the term. These may be individual or group-centred and proposed by the student(s) involved, based on the 'passive' guidance of their teacher/facilitator as appropriate (Chu et al., 2017) or based on a topic suggested by the instructor where the students are required to develop the theme themselves (Krauss & Boss, 2013).

more creative and better adjusted, engage more in school, and feel less stress. (Núñez & León, 2015, p. 275)

Problem-based learning (PBL) is an instructional method aimed at preparing students for realworld settings. By requiring students to solve problems, PBL enhances students' learning outcomes by promoting their abilities and skills in applying knowledge, solving problems, practicing higher order thinking, and self-directing their own learning. (Jonassen & Hung, 2012, online).





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PBL thus differs from thematic teaching, which is instructor-centred: the teacher selects an appropriate topic and the activities which the students are expected to do over the course of the exercise (Krauss & Boss, 2013). As shown in table 2, the focus of PBL is on developing and reinforcing many skills in parallel (Krauss & Boss, 2013; Chu et al., 2017). It provides an effective means for students to not only develop their own ideas but also to use various tools to search for relevant material; and thereafter to compile and edit it (Chu et al., 2017). This thereby enhances their information literacy.

Key Learning Areas	Skills	
Curriculum content	Gaining knowledge, interpreting, and	
	synthesizing	
Information literacy	Locating, evaluating, and using	
Information incracy	information	
	Initiating, selecting, exploring,	
Learning how to learn	focusing, collecting, presenting, and	
	reflecting	
Literacy competence	Reading, writing, speaking, listening,	
Enteracy competence	and viewing	
Social skills	Cooperating, collaborating, flexibility,	
Social Skills	and persistence	

Table 2: 1	Key Learn	ing Areas	and I	Their	Skills ³
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Krauss and Boss (2013) note that PBL requires that projects be:

- relevant, meaningful to the students themselves; as well as
- rigorous (e.g., not being easily resolved by a superficial Google search).

Well-designed projects can have life-long impacts on those involved. Strategies for designing constructive approaches to this style of teaching form the basis for table 3.

³ Adapted from Chu et al. (2017).





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Table 3	Project-Based	Learning ⁴
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Skill	Implication for Students	Application in PBL
	Students can adapt and	Design open ended
Flexibility	improvise.	projects with more than
		one solution.
	Students can apply a	Provide students with
	systematic approach to	tools to manage their
Organization	reach a goal.	project (e.g., shared
		calendars, planning
		templates).
	Students can control	Model respectful
Self-control	their impulses.	behavior and establish
		respectful protocols.
	Students can begin a task	Ask students to track
Task Initiation	without procrastinating.	their goals and progress
		in journals or on blogs.
	Students can manage	Establish interim
Time Management	multiple deadlines and	milestones that work
Time Munugement	demands and plan ahead.	towards the final
		product.
	Students can reflect on	Frequently ask students
Metacognition	the quality of their work	to reflect on their
inclucognition	and their own thought	progress.
	processes.	

Based on the abovementioned suggestions, table 4 lists various ideas for PBL exercises.

Table 4: Ideas for PB ⁵

PBL Activity	Make it happen by	
Storytelling	Create a corner of your classroom that invites storytelling Ask yourself: What inexpensive materials could you use to designate this space?	
Field research	Recruit parent volunteers to help with transportation, supervision of students; Use tools like Skype to connect students with remote experts	

⁴ Adapted from Krauss & Boss (2013, p. 18).

⁵ Adapted from Krauss & Boss (2013, p. 34).



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	Ask yourself: What processes (such as having permission slips on file or ongoing connections with local experts) would help eliminate barriers for field
Sharing work with	<i>research?</i> Have a guest book for visitors to sign; Curate exhibits with 'artist' statements; Have students greet and guide visitors
authentic audiences	Ask yourself: How could you use publishing to reach a larger audience for student work?
Down time (allowing	Give students more flexibility over how they use class
students to recharge time	
their 'thinking	Ask yourself: How might you incorporate short periods
batteries' after	of physical activity during class time?
periods of focused work)	
'Mash-ups' among	Mix up team assignments from one project to the next
students that allow	Ask yourself: How transparent is your process for
for informal	making team assignments?
exchange of ideas	
Scenario-based	Incorporate gaming and other immersive environments
projects or	(both digital and nondigital) into projects
simulations that put	Ask yourself: Who could teach you more about
students into	immersive environments?
immersive	
environments	
Building prototypes and models	Provide students with raw materials to make models and prototypes, making their thinking visible <i>Ask yourself: Where could you create a space for</i> <i>creating models and prototypes within your school</i> <i>building?</i>

When engaging in PBL, students' knowledge and understanding of relevant information-seeking concepts and principles should be periodically monitored to identify any problems and provide advice as necessary. Monitoring the development of individual students' **metacognitive skills** will help teachers to keep track of individual students' progress and adjust their approach as facilitators to better meet the needs of each individual. Evaluating the success of the project is also important. Self-evaluation and peer evaluation are common methods in PBL.

Metacognitive

skills are strategies applied consciously or automatically during learning, cognitive activity, and communication to manipulate





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2.3 Embracing Collaborative Learning

Collaboration is a powerful facilitator of learning because students feel connected and like part of a community when they work effectively with others. Even though collaborative learning seems similar to project-based and cooperative learning, there are some differences. Project-based learning gives students the opportunity to learn through real or simulated situations. The students work in teams, get new knowledge through practice, exchange experiences and develop their skills. In cooperative learning models, the students work and learn together in small groups on given tasks. In collaborative learning approaches, students also work together via peer interactions but also with the participation of the teacher. (Arama, 2019; Elbers & Streefland, 2000) Collaborative learning lets students decide on how they structure the peer-interactions and learning, whereas in cooperative learning the teacher designs and takes control over the learning structure from the beginning to the end (Iglesias Rodriguez, Garcia Riaza, & Cruz Sanchez Gomez, 2017).

Five basic aspects represent collaborative learning:

- Positive interdependence: All members of a group have to work together if they want to reach the final goal of a task. Therefore, they are connected to each other and if one member cannot achieve his or her part of the task, every other member of the group will have to face the same consequences.
- Relevant interaction: Collaborative learning is a process where the group members give feedback to each other, share and explain subject related things and question the conclusions and reasons of the others.
- Personal responsibility: All students of a group are responsible for the success, how they split the work between each other and the chosen material for the task.
- Social skills: The right set up of a collaborative learning environment helps students to develop and improve skills like leadership,

cognitive processes before, during, or after a cognitive activity. Examples are executive function processes such as verbal mediation, self-regulation, planning, judgment, and self-monitoring. (Patterson, 2011, online)





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communication, decision-making, trust-building and conflict management.

 Group self-evaluating: The whole team declares milestones and decides what is going well and where they have to change or improve something. (Iglesias Rodriguez et al., 2017)

Collaborative learning requires engaged students who are able to use previous knowledge and connect it with new material. This does not mean that lecturing, listening and note-taking will vanish from class, but they will have a minor role beside students' discussion and active work. The role of the teacher switches from a simple expert who shares his or her knowledge to a facilitator who is responsible for designing experiences where the students are able to learn new things and anchor existing knowledge.

In the primary classroom, students of a young age who do not have experience with collaboration need guidance at the beginning. Therefore, teachers should establish norms or agreements with the groups. That way it is possible to give the children a voice from the start and ensure that the ideas of everyone are important. Table 5 shows the seven norms of collaboration, which can be modified in an age-appropriate way.

Collaborative Norm	Explanation	Example for the Classroom
Promoting a	Helps students seek	Encourage students to ensure they fully
Spirit of	first to understand	understand what their classmates are
Inquiry		saying: "Tell me more about"
Pausing	Allows time for thinking and enhances dialogue, discussion, and decision-making	Use reflective writing or journaling at specific points during the group work, remind group members to pause before solving a problem right away, and ask students to 'take a moment to think
		about it.'

Table 5: Collaborative Norms ⁶	Table 5:	Collaborative	Norms ⁶
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⁶ Adapted from Garmston & Wellman (2016).







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	Allows students to	Encourage students to use phrases such
Paraphrasing	hear and understand	as: "It sounds like you are saying" or
Farapinasing	one another	"So, to sum up what you said"
	Increases clarity and	Probing should be gentle and open-
Probing	precision of a	ended: "I would like to hear more
Floonig	student's thinking	about" or "I am interested in
		hearing"
	Creates meaningful	Contributing ideas should be
Putting Ideas	dialogue	encouraged and students should remain
on the Table		open-minded: "One thought I have
		is" or "Here is an idea"
	Help students stay	Educate students on group norms (e.g.,
Paying	aware of how their	group members who speak too often or
Attention to	words and actions	not enough) so that they become aware
Self and	affect the group	of them and act accordingly. Students
Others		can ask themselves: "How am I
Others		feeling?" "How are others reacting to
		what I am saying?"
	Promotes productive	Tell students it is OK if they disagree
Presuming	dialogue and	with one another, but they should
Positive	eliminates	respond positively and without
Intensions	unintentional	judgement: "I understand that is your
	resentment	opinion, however"

A poster with the seven norms of collaboration could be made by the class and hung on the wall to remind students how to use them. Teachers can ask students to create their own prompts much like the poster in figure 2.







Figure 2: Norms of Collaboration Poster⁷

Another important aspect to teach students good collaboration is to show them how to listen. One way could be the 'three, then me' norm. This means that after a statement, the student has to wait for three others before he or she can speak again (Alber, 2017). An alternative would be the strategy 'save the last word for me':

- The teacher chooses a text (images or questions are also possible).
- The students have to read the text and highlight, for example, three sentences that stood out for them.
- Each chosen sentence has to be written on the front of a card or paper or electronic device (if available). The important thing is that the students are taking notes and thinking about the task. The reason why they chose those sentences (e.g., what it means to them or reminds them of) has to be written on the back of the cards or on another site in the writing document.

⁷ Taken from DeWaard (2019, online). CC BY-SA 4.0.





- The students are divided into groups of three by the teacher and are labelled (e.g.) student A, B, and C.
- In groups, beginning with student A, one person reads one of the quotations to their group and the other two discuss it: What does it mean? Why is it important to the reader?
- After a few minutes, all A students are invited to read the back of their cards and explain their choice. That way they have 'the last word'. Now, the first round is complete, and the groups go on with the next student B and then C.

(Facing History and Ourselves, n.d.)

Negotiation is an additional skill important for collaboration. This includes listening well, showing patience and flexibility, pointing out shared ideas and areas of group agreement and thinking under pressure. One possible training task is dividing the class into groups and letting each group build a consensus on a topic like planning a birthday party, a field trip or a group meal (Promethean, 2017a).

Through collaboration and the guidance of the teacher, students improve their autonomous learning and confidence, they recognize the importance of listening and sharing and they also begin to notice that everyone brings special skills and therefore value into a project (Promethean, 2017b). Collaboration is not only about the preparation of students but also about preparing the classroom, the teacher and the school. The classroom should be prepared for whole class teaching, group work and at the same time for independent work.





3 KEY POINTS

- ✓ There is a need for a less hierarchical, more democratic learning environment with teachers helping students get in touch with who they want to be and what they want to accomplish in the world.
- ✓ There is the basic expectation that teachers remain actively involved in helping their students but with a paradigm shift from 'How do we teach?' to 'How can we help them learn?'
- ✓ To facilitate this shift, teachers should aim to serve as catalysts to empower their students by bringing out their creativity and by making learning an attractive challenge, rather than a requirement.
- ✓ Teachers should become facilitators of learning rather than leaders. When students have more power over what and how they are learning, they become more confident and realize the power of the learning community they are in.
- ✓ Teachers who share power and build trust are called autonomy supportive teachers. One practical measure autonomy supportive teachers take is to use language that is informational and non-controlling.
- ✓ Problem-based learning (PBL) should be used to ask students to solve real-world problems as a vehicle for them to understand larger concepts and principles.
- ✓ When engaging in PBL, students' knowledge and understanding of relevant information-seeking concepts and principles should be periodically monitored to identify any problems and provide advice as necessary.
- ✓ Teachers should utilize collaborative learning approaches, in which students work together via peer interactions with the participation of the teacher.





- ✓ Five basic aspects represent collaborative learning: positive interdependence, relevant interaction, personal responsibility, social skills and group self-evaluating.
- ✓ In the primary classroom, students of a young age who do not have experience with collaboration need guidance at the beginning. Therefore, teachers should establish norms or agreements with the groups. That way it is possible to give the children a voice from the start and ensure that the ideas of everyone are important.

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MODULE 3

LEARNER-CENTERED PRIMARY EDUCATION: ENHANCING CO-CREATED LEARNING PROCESSES

3.3 SELF-DETERMINATION, EMPOWERMENT AND SELF-EFFICACY

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MODULE 3

LEARNER-CENTERED PRIMARY EDUCATION: ENHANCING CO-CREATED LEARNING PROCESSES

3.3 SELF-DETERMINATION, EMPOWERMENT AND SELF-EFFICACY

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STEP 1 PRACTICE EXERCISES



A Indicate if the following statements are true or false:

- 1. The current shift to learner-centered teaching environments means that the teacher is considered the 'expert.' (T/F)
- 2. Ultimately, the less power teachers share, the more dependent students become. (T/F)
- 3. In classrooms where teachers support autonomy, students improve their academic performance, are more creative and better adjusted, engage more in school, and feel less stress. (T/F)
- 4. Collaborative learning does not let students decide on how they structure their peerinteractions and learning; the teacher decides. (T/F)
- 5. Problem-based learning is a type of inquiry-based learning which tends to be more long-term and interdisciplinary, often with no definitive answers at the end. (T/F)
- 6. Executive function processes such as verbal mediation, self-regulation, planning, judgment, and self-monitoring are all examples of metacognitive skills. (T/F)
- 7. The focus of problem-based learning is on developing and reinforcing one skill at a time. (T/F)
- 8. Listening is an important skill in collaborative work. (T/F)



B Fill in the domain for each expected learning outcome according to UNESCO's framework for empowering students:

cognitive-socio-emotional-behavioral

_____ Students acquire knowledge and understanding of local, national and global issues

_____ Students develop the motivation and willingness to take necessary actions

_____ Students develop critical thinking and analysis skills

_____ Students experience a sense of belonging to a common humanity, sharing values and responsibilities based on human rights



_____ Students acquire knowledge and understanding of the interconnectedness and interdependency of various countries and populations

_____ Students develop attitudes of empathy, solidarity and respect for differences and diversity

_____ Students act effectively and responsibly at local, national and global levels for a more sustainable and peaceful world



C Complete the chart by filling in the missing pieces:

Teacher Symbols¹ – "You must..." or "You need to..."² – Students are assessed with a number grade on every assignment³ – Organization⁴ – The students can choose their groups and the order of the tasks⁵ – "You could..." or "Maybe you try..."⁶ – Teacher Feedback⁷

BEHAVIOR	Autonomy Supportive	Controlling
	"You wrote an engaging story	"You completed the exercise as
	with good structure."	you were told."
Student Choice		The teacher chooses the groups
		and order of the tasks.
	The teacher corrects an	The teacher corrects with a red
	assignment with a green or blue	pen.
	pen.	
Language		
Grades	Students are assessed in various	
	ways throughout the year.	
	Students can choose how much	Students have to finish the tasks
	time they spend on certain tasks	when the teacher tells them to.
	within a given amount of time.	



D Drag and drop the characteristics into the appropriate category in the chart below:

learn through real or simulated situations¹ – positive interdependence² – develop and improve communication, trust-building and leadership³ – teacher designs the learning structure⁴ – teachers are facilitators⁵ – there is no standard output⁶ – students work together in small groups on given tasks⁷ – the learning is more long-term and interdisciplinary⁸ – all group members are responsible for the success⁹ – the tasks are meaningful to the students themselves¹⁰ – the teacher takes control over the learning structure¹¹ – the whole team decides what is going good and where they have to change or improve something¹²





LEARNER-CENTERED PRIMARY EDUCATION: ENHANCING CO-CREATED

LEARNING PROCESSES

MODULE 3

3.3 SELF-DETERMINATION, EMPOWERMENT AND SELF-EFFICACY

collaborative learning	problem-based learning	cooperative learning



E Match the skills (1-6) with the application of problem-based learning (A-F).

- 1. Flexibility
- 2. Organization
- 3. Self-control
- 4. Task Initiation
- 5. Time Management
- 6. Metacognition
- A. Provide students with tools to manage their project.
- B. Model respectful behavior and establish respectful protocols.
- C. Establish interim milestones that work towards the final product.
- D. Design open ended projects with more than one solution.
- E. Frequently ask students to reflect on their progress.
- F. Ask students to track their goals and progress in journals.





F Match the collaborative norms from the poster to their corresponding definitions:



- _____Allows time for thinking and enhances dialogue, discussion, and decision-making
- ____Creates meaningful dialogue
- _____Helps students seek first to understand
- _____Increases clarity and precisions of a student's thinking
- _____Helps students stay aware of how their words and actions affect the group
- _____Allows students to hear and understand one another
- _____Promotes productive dialogue and eliminates unintentional resentment





MODULE 3 LEARNER-CENTERED PRIMARY EDUCATION: ENHANCING CO-CREATED LEARNING PROCESSES

3.3 SELF-DETERMINATION, EMPOWERMENT AND SELF-EFFICACY

STEP 1 PRACTICE EXERCISES - SOLUTIONS



A Indicate if the following statements are true or false:

- 1. The current shift to learner-centered teaching environments means that the teacher is considered the 'expert.' T/F (Correct Answer: The current shift to learner-centered teaching environments means that the teacher is no longer the 'expert' but rather a supportive guide or facilitator for their students.)
- 2. Ultimately, the less power teachers share, the more dependent students become. T/F
- 3. In classrooms where teachers support autonomy, students improve their academic performance, are more creative and better adjusted, engage more in school, and feel less stress. T/F
- 4. Collaborative learning does not let students decide on how they structure their peerinteractions and learning; the teacher decides. T/F (Correct Answer: Collaborative learning lets students decide on how they structure the peer-interactions and learning.)
- 5. Problem-based learning is a type of inquiry-based learning which tends to be more long-term and interdisciplinary, often with no definitive answers at the end. T/F
- 6. Executive function processes such as verbal mediation, self-regulation, planning, judgment, and self-monitoring are all examples of metacognitive skills. T/F
- 7. The focus of problem-based learning is on developing and reinforcing one skill at a time. T/F (Correct Answer: Problem-based learning supports students in developing and reinforcing multiple skills simultaneously.)
- 8. Listening is an important skill in collaborative work. T/F



B Fill in the domain for each expected learning outcome according to UNESCO's framework for empowering students:

cognitive-socio-emotional-behavioral

cognitive Students acquire knowledge and understanding of local, national and global issues

behavioral Students develop the motivation and willingness to take necessary actions





LEARNER-CENTERED PRIMARY EDUCATION: ENHANCING CO-CREATED

A LEARNING PROCESSES

MODULE 3

3.3 SELF-DETERMINATION, EMPOWERMENT AND SELF-EFFICACY

_<mark>cognitive</mark>_____ Students develop critical thinking and analysis skills

socio-emotional Students experience a sense of belonging to a common humanity, sharing values and responsibilities based on human rights

<u>cognitive</u> Students acquire knowledge and understanding of the interconnectedness and interdependency of various countries and populations

socio-emotional Students develop attitudes of empathy, solidarity and respect for differences and diversity

_____behavioral_____ Students act effectively and responsibly at local, national and global levels for a more sustainable and peaceful world



C Complete the chart by filling in the missing pieces:

Teacher Symbols¹ – "You must..." or "You need to..."² – Students are assessed with a number grade on every assignment³ – Organization⁴ – The students can choose their groups and the order of the tasks⁵ – "You could..." or "Maybe you try..."⁶ – Teacher Feedback⁷

BEHAVIOR	Autonomy Supportive	Controlling
<mark>7</mark>	"You wrote an engaging story	"You completed the exercise as
	with good structure."	you were told."
Student Choice	<mark>5</mark>	The teacher chooses the groups
		and order of the tasks.
<mark>1</mark>	The teacher corrects an	The teacher corrects with a red
	assignment with a green or blue	pen.
	pen.	
Language	<mark>6</mark>	2
Grades	Students are assessed in various	3
	ways throughout the year.	
4	Students can choose how much	Students have to finish the tasks
	time they spend on certain tasks	when the teacher tells them to.
	within a given amount of time.	







D Drag and drop the characteristics into the appropriate category in the chart below:

learn through real or simulated situations¹ – positive interdependence² – develop and improve communication, trust-building and leadership³ – teacher designs the learning structure⁴ – teachers are facilitators⁵ – there is no standard output⁶ – students work together in small groups on given tasks⁷ – the learning is more long-term and interdisciplinary⁸ – all group members are responsible for the success⁹ – the tasks are meaningful to the students themselves¹⁰ – the teacher takes control over the learning structure¹¹ – the whole team decides what is going good and where they have to change or improve something¹²

collaborative learning	problem-based learning	cooperative learning
2	1	4
3	6	7
5	8	11
9	10	12



E Match the skills (1-6) with the application of problem-based learning (A-F).

- 1. Flexibility
- 2. Organization
- 3. Self-control
- 4. Task Initiation
- 5. Time Management
- 6. Metacognition
- A. Provide students with tools to manage their project.
- B. Model respectful behavior and establish respectful protocols.
- C. Establish interim milestones that work towards the final product.
- D. Design open ended projects with more than one solution.
- E. Frequently ask students to reflect on their progress.
- F. Ask students to track their goals and progress in journals.

2A - 3B - 5C - 1D - 6E - 4F





F Match the collaborative norms from the poster to their corresponding definitions:



- 2 Allows time for thinking and enhances dialogue, discussion, and decision-making
- **<u>5</u>** Creates meaningful dialogue
- <u>1</u> Helps students seek first to understand
- **<u>4</u>** Increases clarity and precisions of a student's thinking
- **<u>6</u>** Helps students stay aware of how their words and actions affect the group
- <u>3</u> Allows students to hear and understand one another
- **<u>7</u>** Promotes productive dialogue and eliminates unintentional resentment



STEP 2 PRACTICE EXERCISES

A Read the following case studies. Decide which description represents problembased learning, which one cooperative learning and which one collaborative learning:

Case Study 1

Mr. Nearyroth hands out a text on waste separation in his class and writes three questions on the board. The students should first read through the text themselves and write down key words. The students are supposed to work together in groups of three people to discuss the text and answer the questions. Mr. Nearyroth walks around the class and gives the teams help when they need it. All groups should then present their results and findings in front of the class. ____

Case Study 2

The 4th grade is currently learning the formulas for the area of squares and rectangles. Mrs. Munro brought the students various handcraft materials (e.g., glue, paper, string) and in groups of four, the students are asked to design a total of four models of squares and rectangles. The teacher then wants to continue working with these figures.

Case Study 3

The second-grade students are very excited when Ms. Vithanapathirana enters the class with posters and pens. Today she starts a new subject in biology class: health. She pushes the tables together and the children are supposed to work in groups of four to create a mind map on the subject of health. They should write down everything they can think of about the term health. Through the open task, the students should improve and develop social skills (e.g., communication) in addition to the content-related aspects.



B Below you will find a list of different statements of teacher autonomy supportive behavior and teacher controlling behavior. Drag and drop the examples into the appropriate category in the chart below:

I always use a red pen to correct mistakes in texts or tests.¹ – I always tell my students that they can either work in groups or on their own.² – I have a working plan for each week. Students can choose when they want to work on which task. The only specification is that everything has to be done by Friday.³ – I always praise my students once they have solved all the math problems as they were told.⁴ – When it comes to group work, I let the students decide with whom they





want to work in a group.⁵ – I use all different colors for the correction and not just red.⁶ – When it comes to writing, I always tell my students exactly how much they have to write.⁷ – When it comes to pair work, my students always have to work together with the person sitting next to them.⁸ – I repeatedly remind my students that they will get a grade on their assignments.⁹ – I appreciate my students efforts and tell them when I think it's great that, for example, they underlined the solutions to the math problems with colored pens and a ruler.¹⁰ – If we have some minutes left in a lesson, my students can read a book of their choosing.¹¹

Autonomy Supportive Behavior	Controlling Behavior



C Adapt the definitions of the collaborative standards from the poster to the corresponding practical examples. To do this, connect the appropriate fields with each other:





- (1) Helps students seek first to understand:
- (2) Allows time for thinking and enhances dialogue, discussion, and decision-making:
- (3) Allows students to hear and understand one another:
- (4) Increases clarity and precision of a student's thinking:
- (5) Creates meaningful dialogue:
- (6) Help students stay aware of how their words and actions affect the group:
- (7) Promotes productive dialogue and eliminates unintentional resentment:

(A) "So, you would say that the quality of sleep influences your performance in everyday life and also has an impact on your perception of stress? That's a good aspect."

(B) "I think Lisa wants to say that it doesn't depend on the kind of sport you do, but that you are active at all."

(C) "I would like to know more about how sleep can affect my health."

(D) "Do you agree if we also write sport on the board? How can exercise affect our health?"

(E) "To what extent do you think sleep affects the perception of stress?"

(F) "What do you think? I am waiting a minute to allow time to think first. Maybe you have some ideas."

(G) "I will write the words sleep and stress on our mind map."



STEP 2 PRACTICE EXERCISES - SOLUTIONS

A Read the following case studies. Decide which description represents problembased learning, which one cooperative learning and which one collaborative learning:

Case Study 1

Mr. Nearyroth hands out a text on waste separation in his class and writes three questions on the board. The students should first read through the text themselves and write down key words. The students are supposed to work together in groups of three people to discuss the text and answer the questions. Mr. Nearyroth walks around the class and gives the teams help when they need it. All groups should then present their results and findings in front of the class. **Cooperative Learning**

Case Study 2

The 4th grade is currently learning the formulas for the area of squares and rectangles. Mrs. Munro brought the students various handcraft materials (e.g., glue, paper, string) and in groups of four, the students are asked to design a total of four models of squares and rectangles. The teacher then wants to continue working with these figures. **Problem-Based Learning**

Case Study 3

The second-grade students are very excited when Ms. Vithanapathirana enters the class with posters and pens. Today she starts a new subject in biology class: health. She pushes the tables together and the children are supposed to work in groups of four to create a mind map on the subject of health. They should write down everything they can think of about the term health. Through the open task, the students should improve and develop social skills (e.g., communication) in addition to the content-related aspects. **Collaborative Learning**

B Below you will find a list of different statements of teacher autonomy supportive behavior and teacher controlling behavior. Drag and drop the examples into the appropriate category in the chart below:

I always use a red pen to correct mistakes in texts or tests.¹ – I always tell my students that they can either work in groups or on their own.² – I have a working plan for each week. Students can choose when they want to work on which task. The only specification is that everything has to be done by Friday.³ – I always praise my students once they have solved all the math problems





as they were told.⁴ – When it comes to group work, I let the students decide with whom they want to work in a group.⁵ – I use all different colors for the correction and not just red.⁶ – When it comes to writing, I always tell my students exactly how much they have to write.⁷ – When it comes to pair work, my students always have to work together with the person sitting next to them.⁸ – I repeatedly remind my students that they will get a grade on their assignments.⁹ – I appreciate my students efforts and tell them when I think it's great that, for example, they underlined the solutions to the math problems with colored pens and a ruler.¹⁰ – If we have some minutes left in a lesson, my students can read a book of their choosing.¹¹

Autonomy Supportive Behavior	Controlling Behavior
2	1
3	4
5	7
6	8
10	9
11	

- Ű.
- C Adapt the definitions of the collaborative standards from the poster to the corresponding practical examples. To do this, connect the appropriate fields with each other:





- (1) Helps students seek first to understand:
- (2) Allows time for thinking and enhances dialogue, discussion, and decision-making:
- (3) Allows students to hear and understand one another:
- (4) Increases clarity and precision of a student's thinking:
- (5) Creates meaningful dialogue:
- (6) Help students stay aware of how their words and actions affect the group:
- (7) Promotes productive dialogue and eliminates unintentional resentment:

(A) "So, you would say that the quality of sleep influences your performance in everyday life and also has an impact on your perception of stress? That's a good aspect."

(B) "I think Lisa wants to say that it doesn't depend on the kind of sport you do, but that you are active at all."

(C) "I would like to know more about how sleep can affect my health."

(D) "Do you agree if we also write sport on the board? How can exercise affect our health?"

(E) "To what extent do you think sleep affects the perception of stress?"

(F) "What do you think? I am waiting a minute to allow time to think first. Maybe you have some ideas."

(G) "I will write the words sleep and stress on our mind map."

1C - 2F - 3A - 4E - 5G - 6D - 7B





STEP 3 PORTFOLIO TASK – SELF-REFLECTION QUESTIONS



Write an essay answer to the following self-reflection question. Your answer should be approximately 300-500 words long and answered in a coherent text with full sentences. THIS ESSAY ANSWER GOES INTO YOUR PERSONAL PORTFOLIO!

1. How can a teacher support students to experience self-empowerment within school life and/or classroom situations?

STEP 4 PORTFOLIO TASK – TEACHING PROJECT



Create your own personal teaching project. Develop an outline for either projectbased learning or collaborative learning in your class and for your topic chosen in Module 1.1. This portfolio task should be approximately 800-1000 words long. THE TEACHING PROJECT GOES INTO YOUR PERSONAL PORTFOLIO! Consider the following questions: Which aspects do you have to consider for this form of teaching, which methods could be useful, which organizational decisions do you have to take, how much time do you have at hand? Successful educators understand how to put the learner into the focus of teaching and thus support the individual student on their path towards achievement. In this module, you will explore learner-centered education, and upon its completion, you will have a better understanding of how to incorporate the individual interests and needs of children into a cooperative learning environment. The focus will be on planning, conducting, reflecting, and evaluating lessons in a learner-centered way.



Enjoy!







