



MOOC-based course to credit course in CNMOOC

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The MOOC Office of Shanghai Jiao Tong University

Contents

- **Traditional Classroom teaching in SJTU**
- From traditional classroom teaching to MOOC
- Credit MOOC Course in CNMOOC
- From MOOC to Flipped Classroom

Zoology Curriculum

NO	Course Number	Course Title	type	Credit	Hours	Term	Remark
1	MA005	Advanced Mathematics (C)	required	3	54	1	
2	EN001	College English (1)	required	4	72	1	
3	TS008	Veterinary medicine	optional	2	36	3	1 in 2
4	TS012	Animal immunity	optional	2	36	3	1 in 2

Courses

Program of the department of Mathematics

id	course id	Course name	type	credits	period	No. of class	No. of students
1	MA005	Advanced Mathematics (C)	required	3	54	50	1200
1	MA006	Advanced Mathematics (D)	required	3	54	50	1200

The plan of workload, arrangements and resources

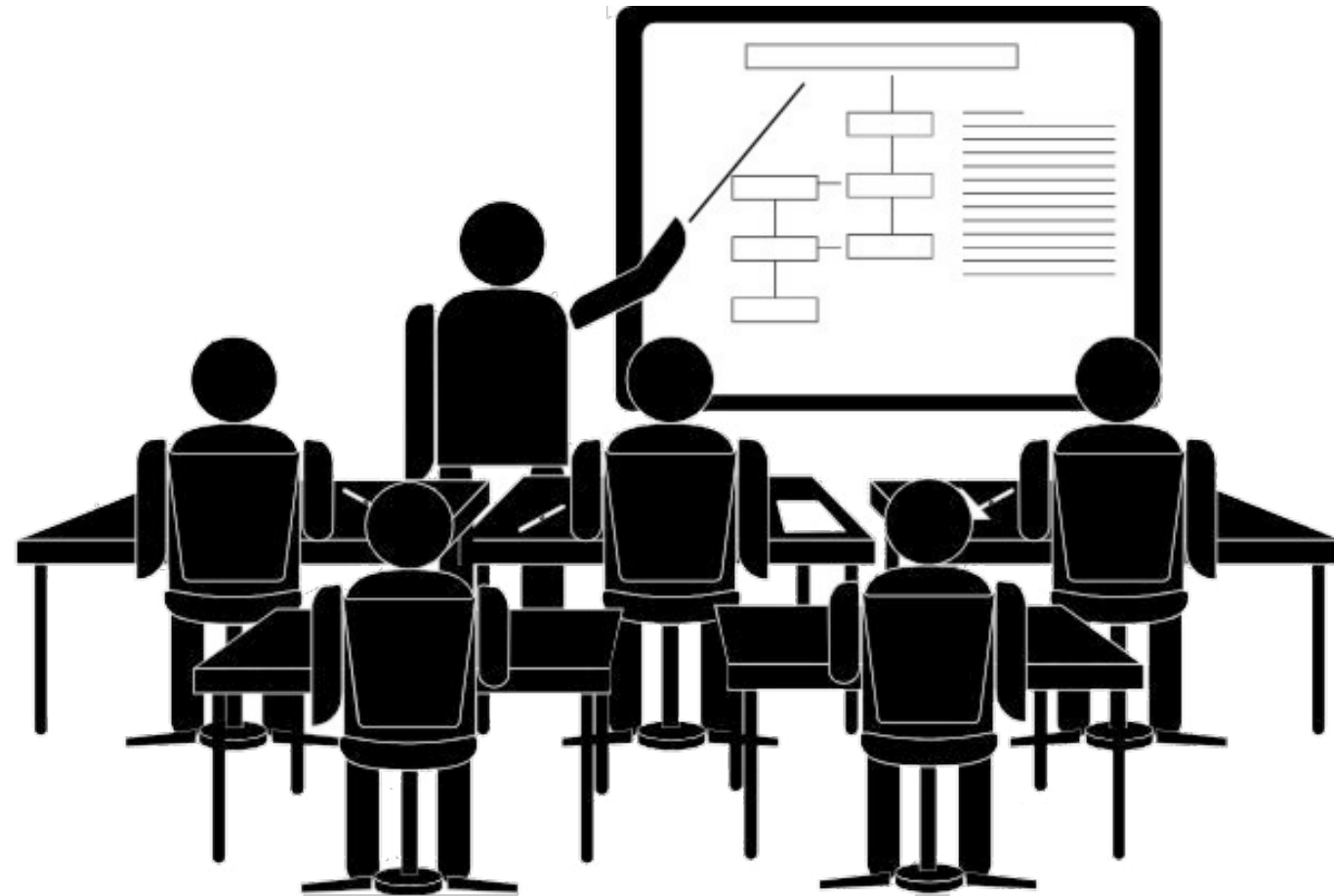
Teaching Plan

Course plan of School of Agriculture and Biology

id	Course id	Course name	department	type	credit	period	semester	No. of students
3	TS008	Veterinary medicine	AGRI	optional	2	36	3	10
4	TS012	Animal immunity	AGRI	optional	2	36	3	10

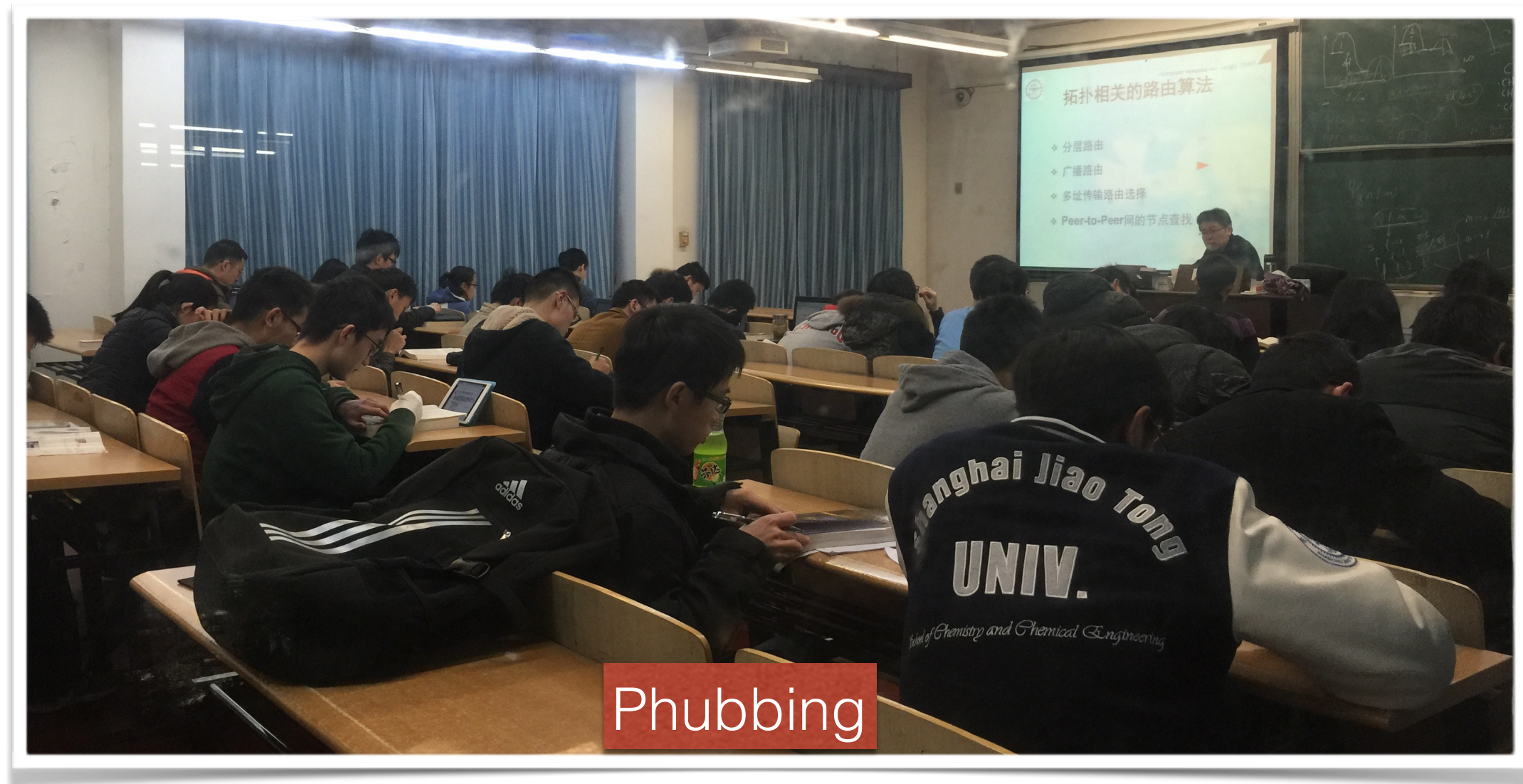
The pressure of professional courses

Traditional Teaching class



- The capacity of the course is limited by the teachers not by the students' demands
- Teaching effect is not assessed

Traditional Classroom



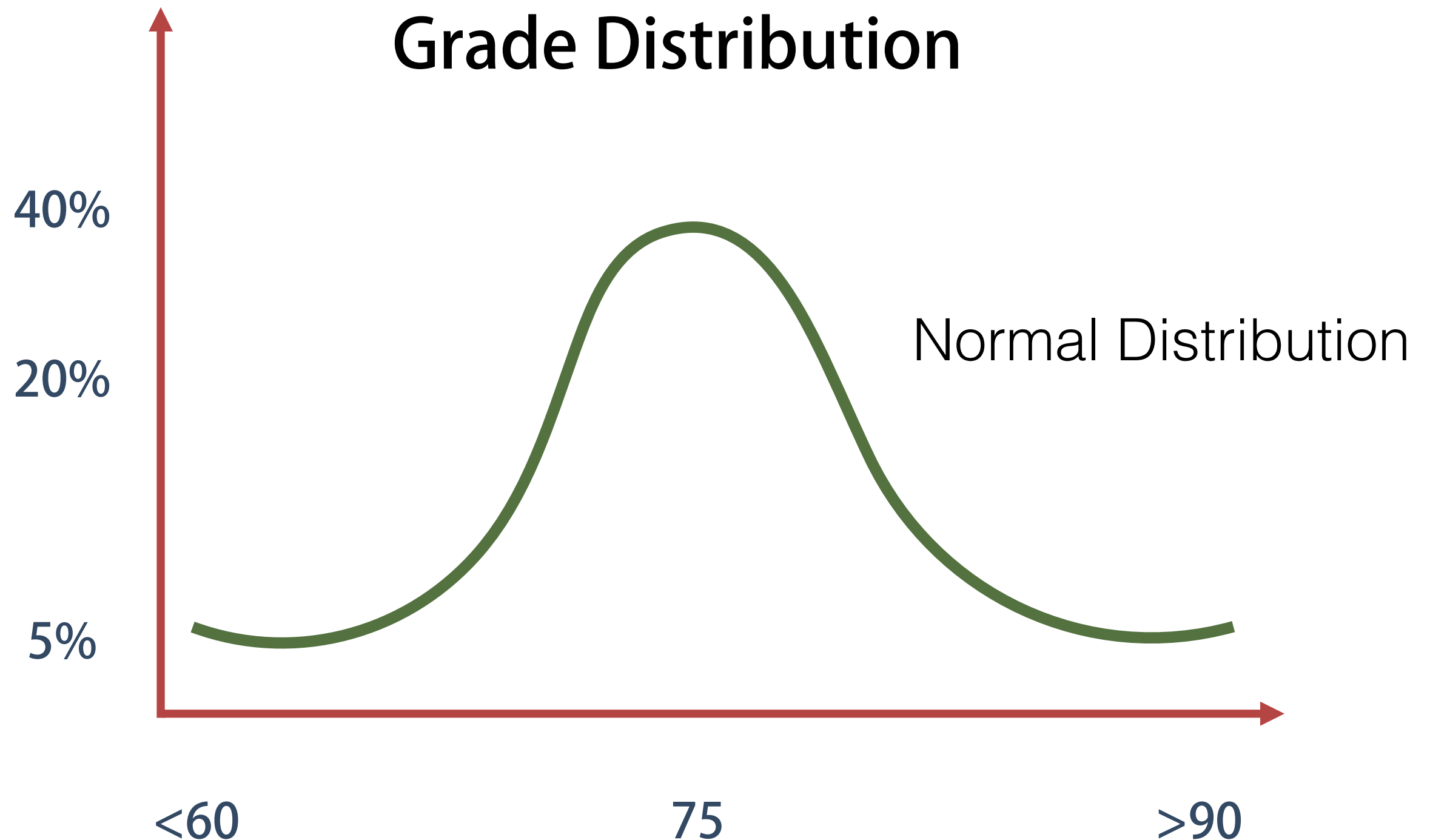
Traditional classroom teaching does not work effectively: most students play their mobile phones instead of focusing on class.

Traditional Classroom



- The students sit far from the teacher and talk to each other
- Classroom teaching become just formalism not interaction and study

Traditional Classroom



Seats and Grade Distribution



Classroom teaching in SJTU

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Classroom Video



上海交通大学
SHANGHAI JIAO TONG UNIVERSITY

开头的话

定义：设 X 是一集合， $d(x, y)$ 是 $X \times X$ 到 R 的映射，满足：

(1) 对任意 $x, y \in X$ ，有 $d(x, y) \geq 0$ ，且 $d(x, y) = 0$ 当且仅当 $x = y$ ；

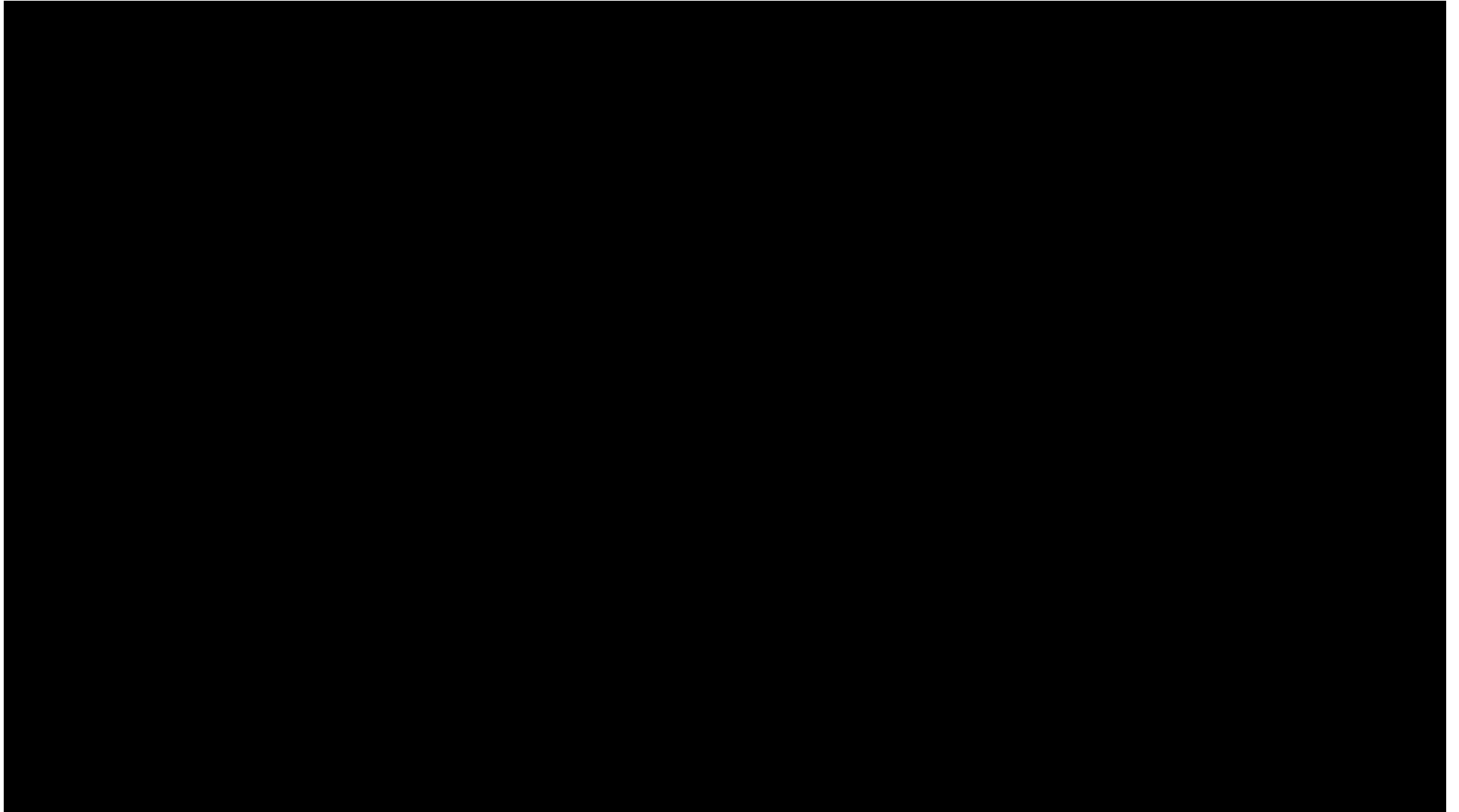
(2) 对任意 $x, y \in X$ ，有 $d(x, y) = d(y, x)$ ；

(3) 对任意 $x, y \in X$ ，有 $d(x, z) \leq d(x, y) + d(y, z)$ ，

则称 $d(x, y)$ 是 X 上的距离。

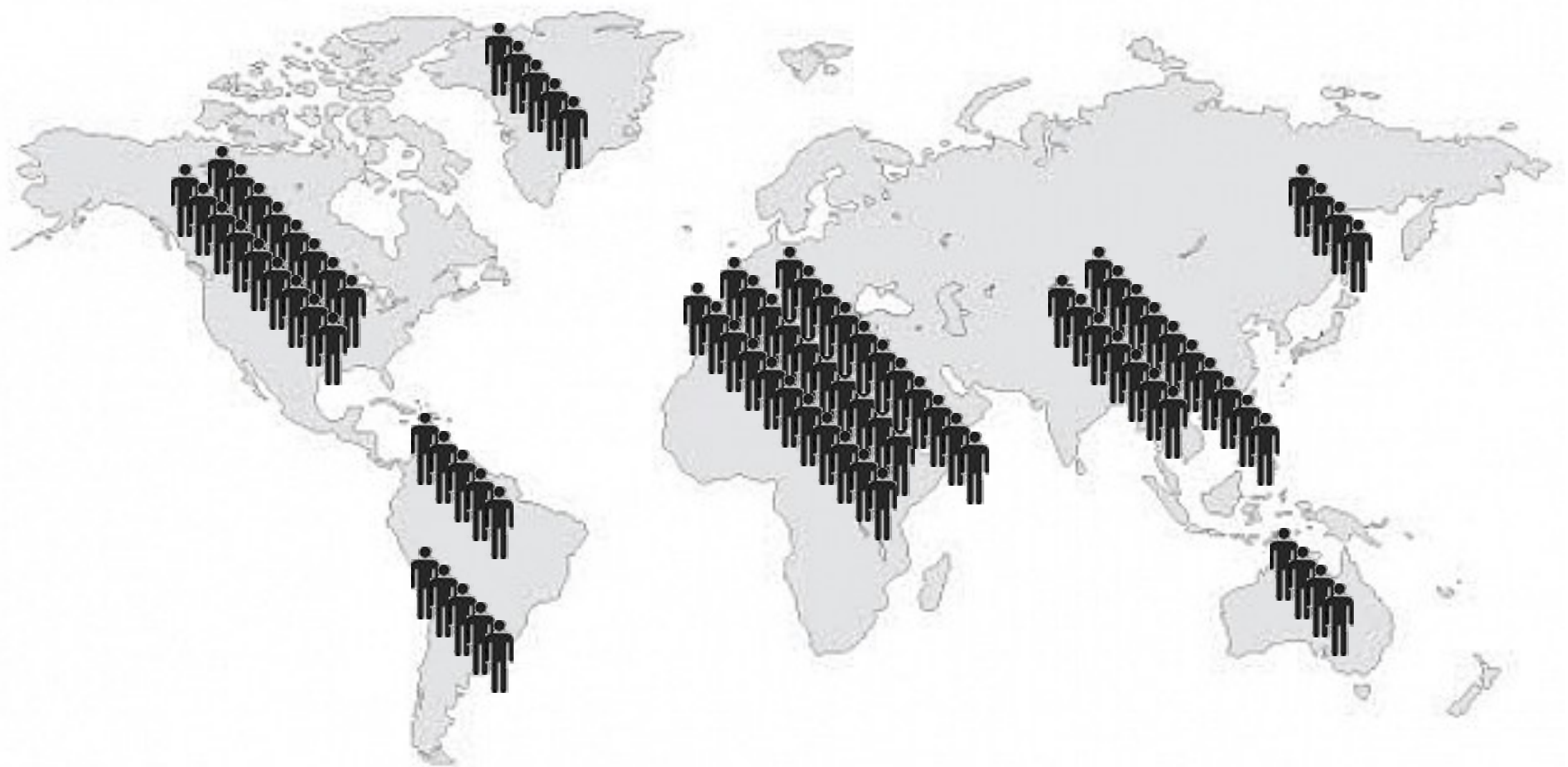
45 minutes Traditional Classroom Teaching make student boring

MOOC Course Video



Break up material into thematic segments of 8 to 15 minutes.

MOOC Classroom

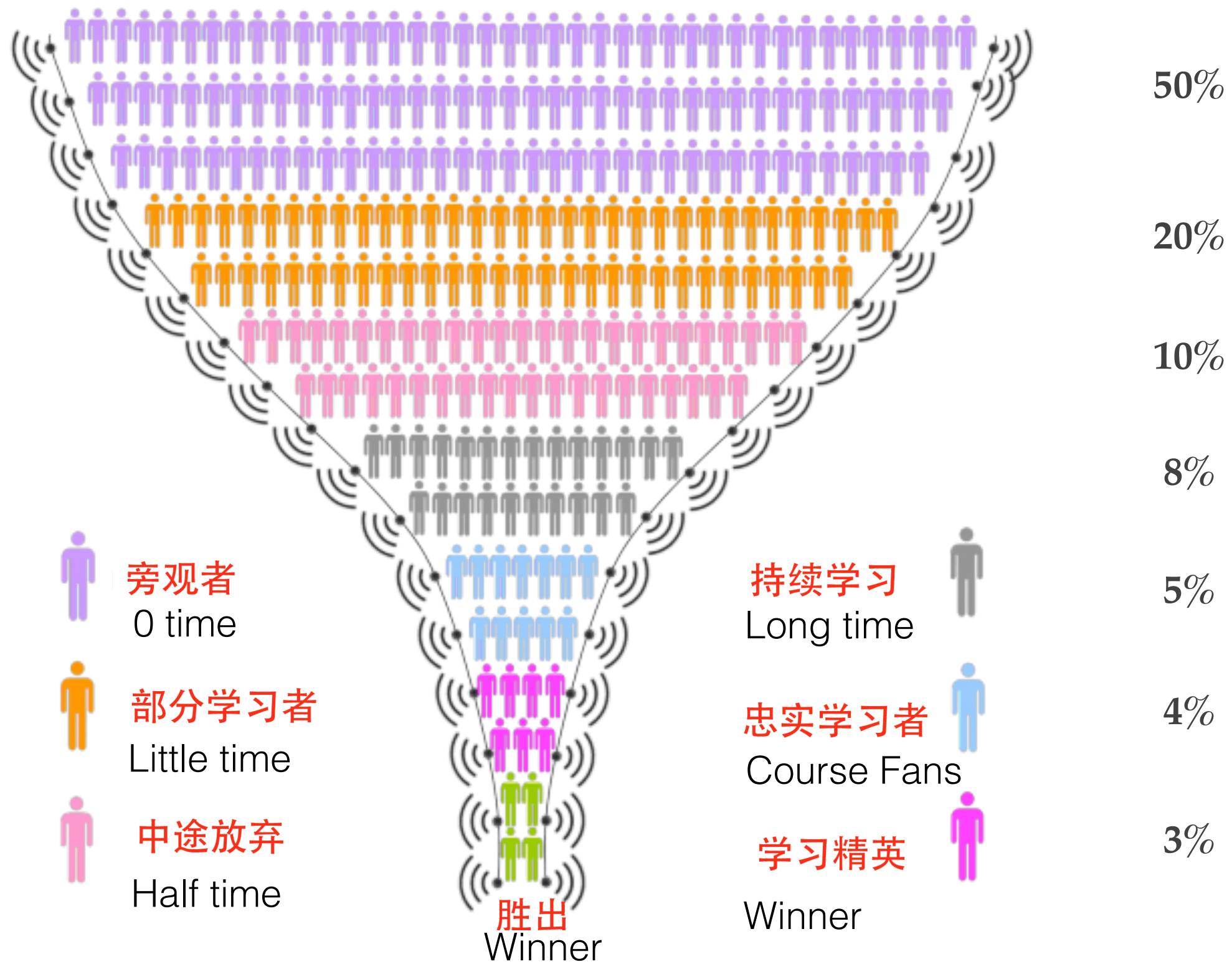


MOOC Learners from world

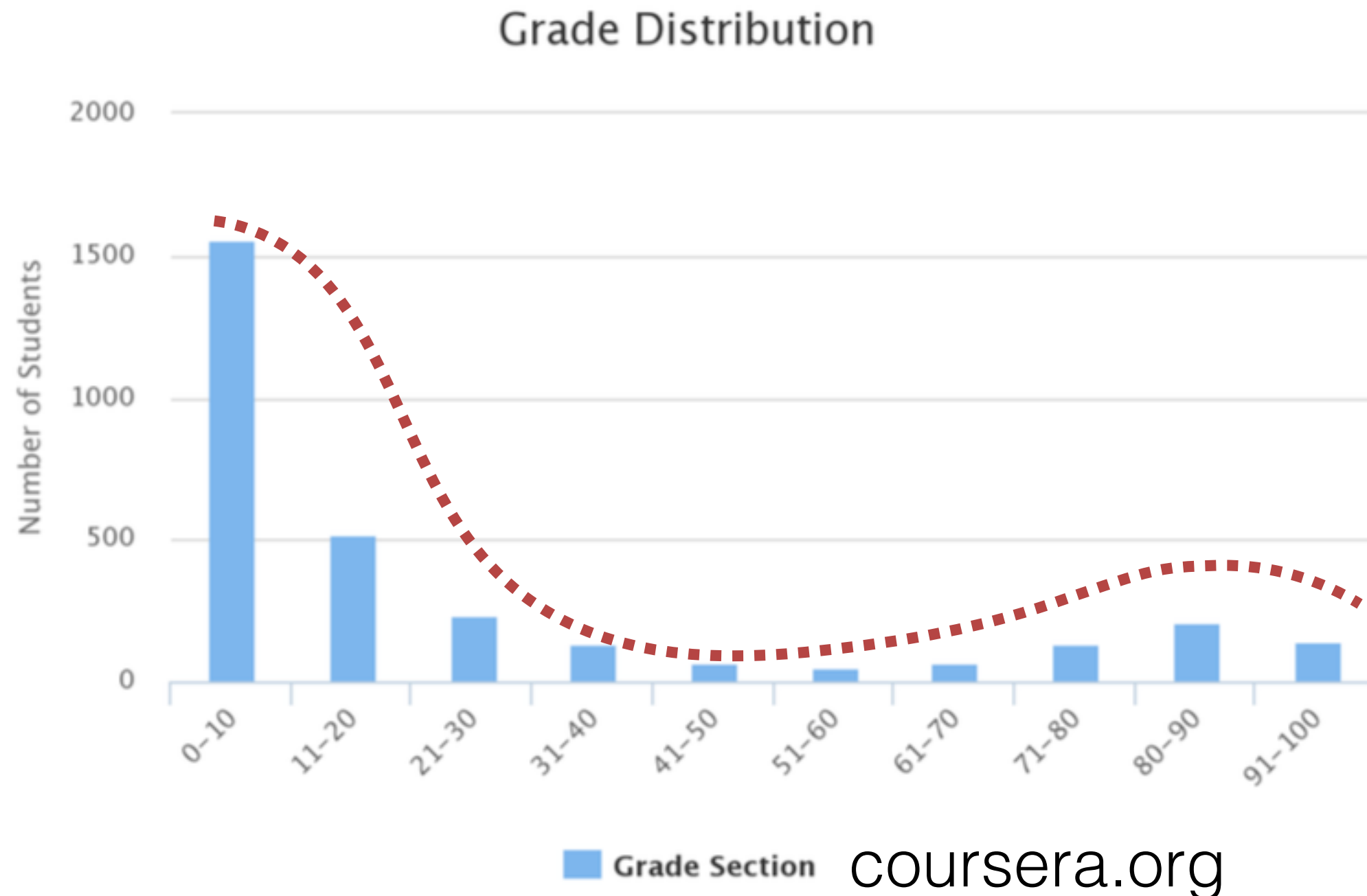


1000

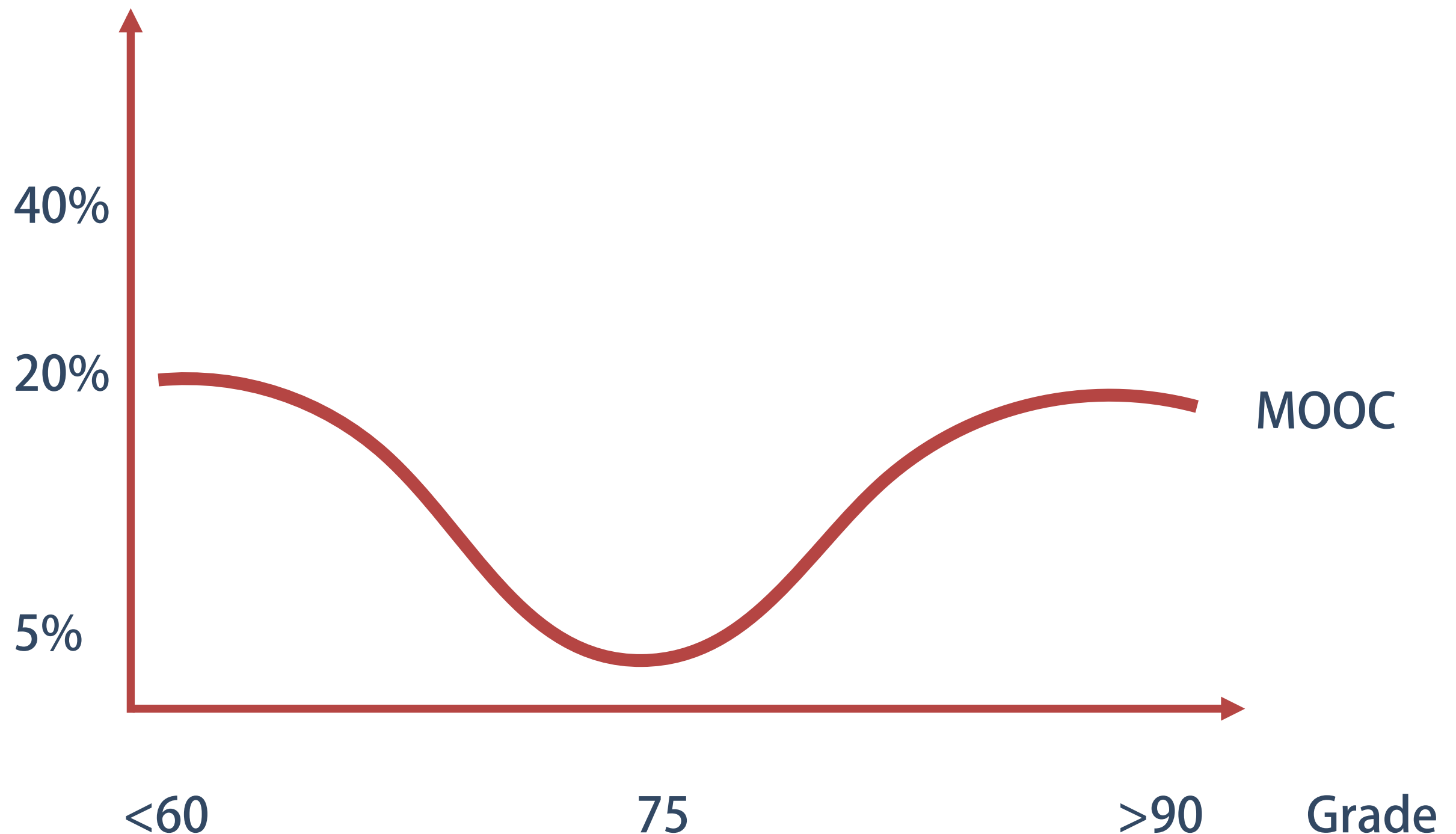
Funnel Effect



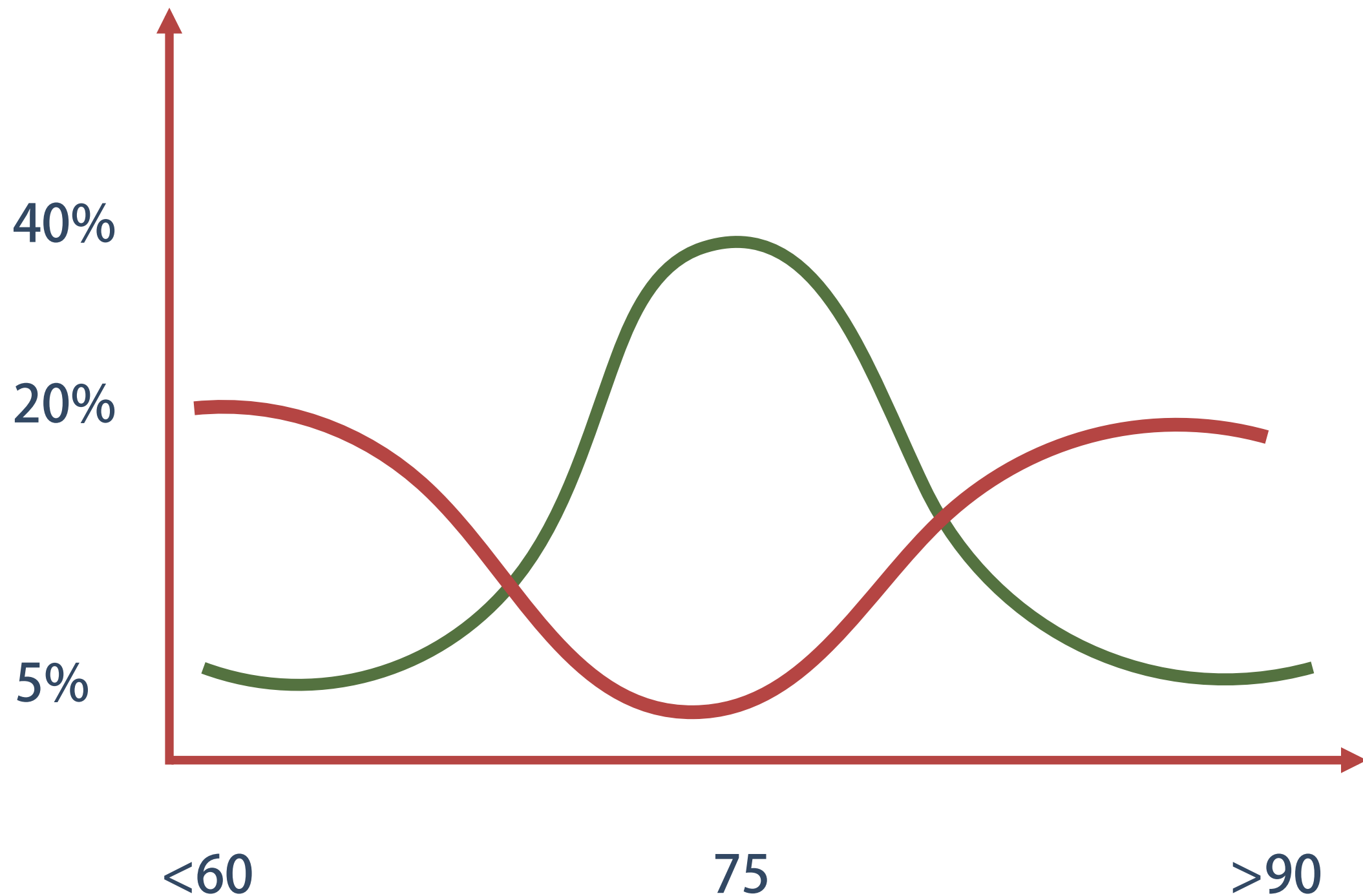
Grade distribution of traditional Chinese medicine and culture



MOOC: Abnormal Distribution



Traditional Classroom Vs MOOC Classroom



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Credit MOOC Course in CNMOOC



More than 400 universities and 200K students from China

Credit MOOC Course in CNMOOC



Credit MOOC Course in CNMOOC



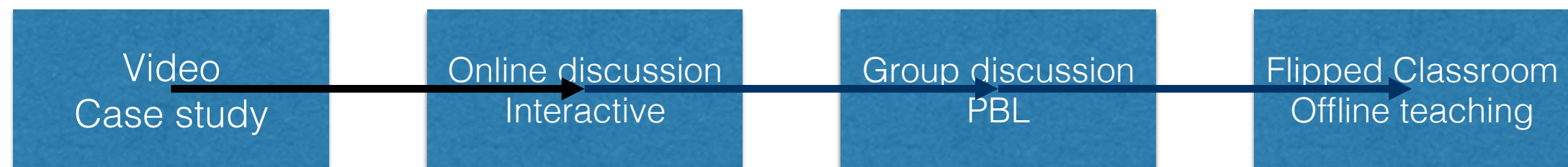
Online Learning

Online Forum

Online Test

The screenshot shows the CNMOOC course page for 'Methods of Applied Mathematics II'. The header includes the '好大学在线 CNMOOC' logo, navigation links for '首页 Home', '课程 Courses', and '院校 Universities', and a user profile for '余建波'. The left sidebar contains a course card for 'Methods of Applied Mathematics II' by 'Horst Hoh...' from '上海交通大学', and a menu with options like '课程公告', '课程大纲', '考核标准', '课程内容', '章节导航', '测验与作业', and '讨论交流'. The main content area displays course announcements, including a notice about using English, a homework release for Week 1, and a welcome message. The right sidebar shows a '100% 已开课' status, a '测验与作业' section with a reminder, and a '新发布内容' section listing various topics like 'The Method of Images' and 'The Boundary Element Method'.

Credit MOOC Course in CNMOOC

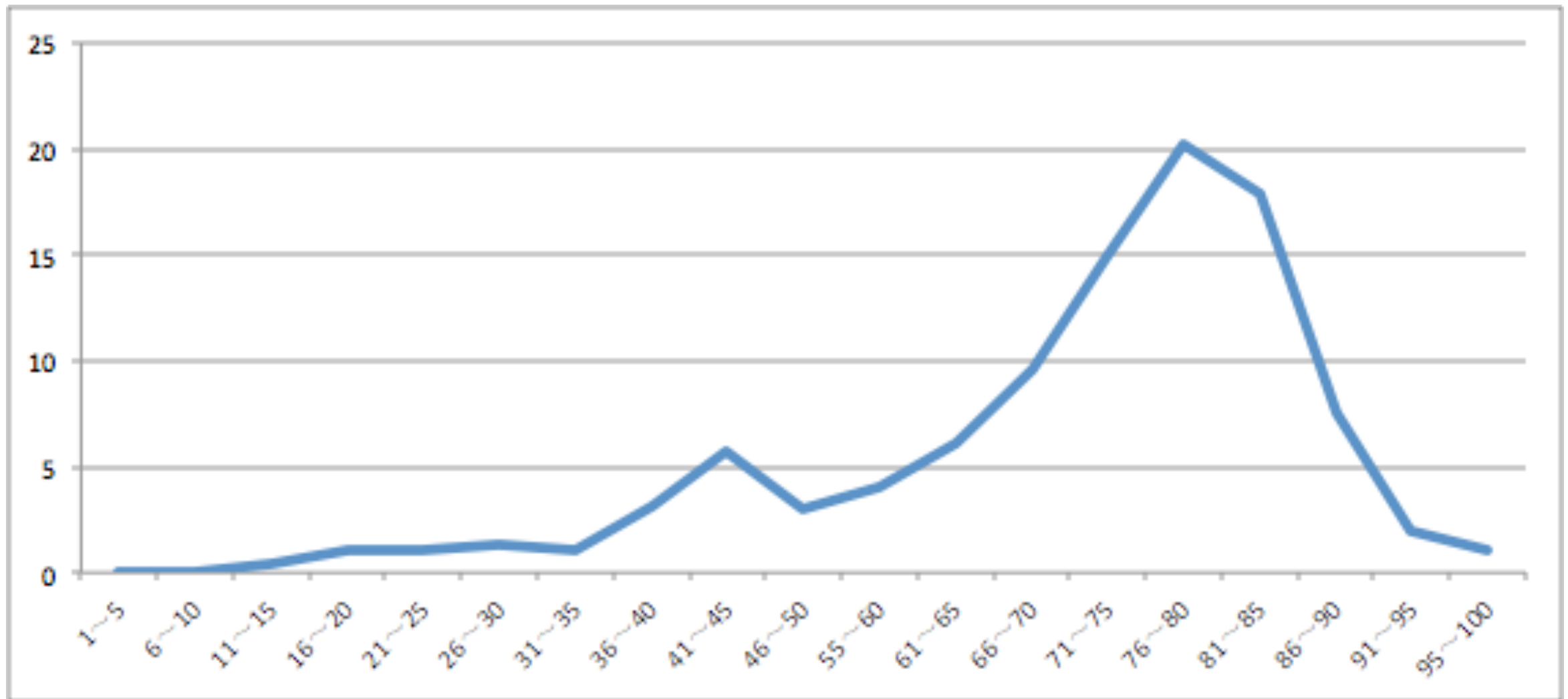


Team work report



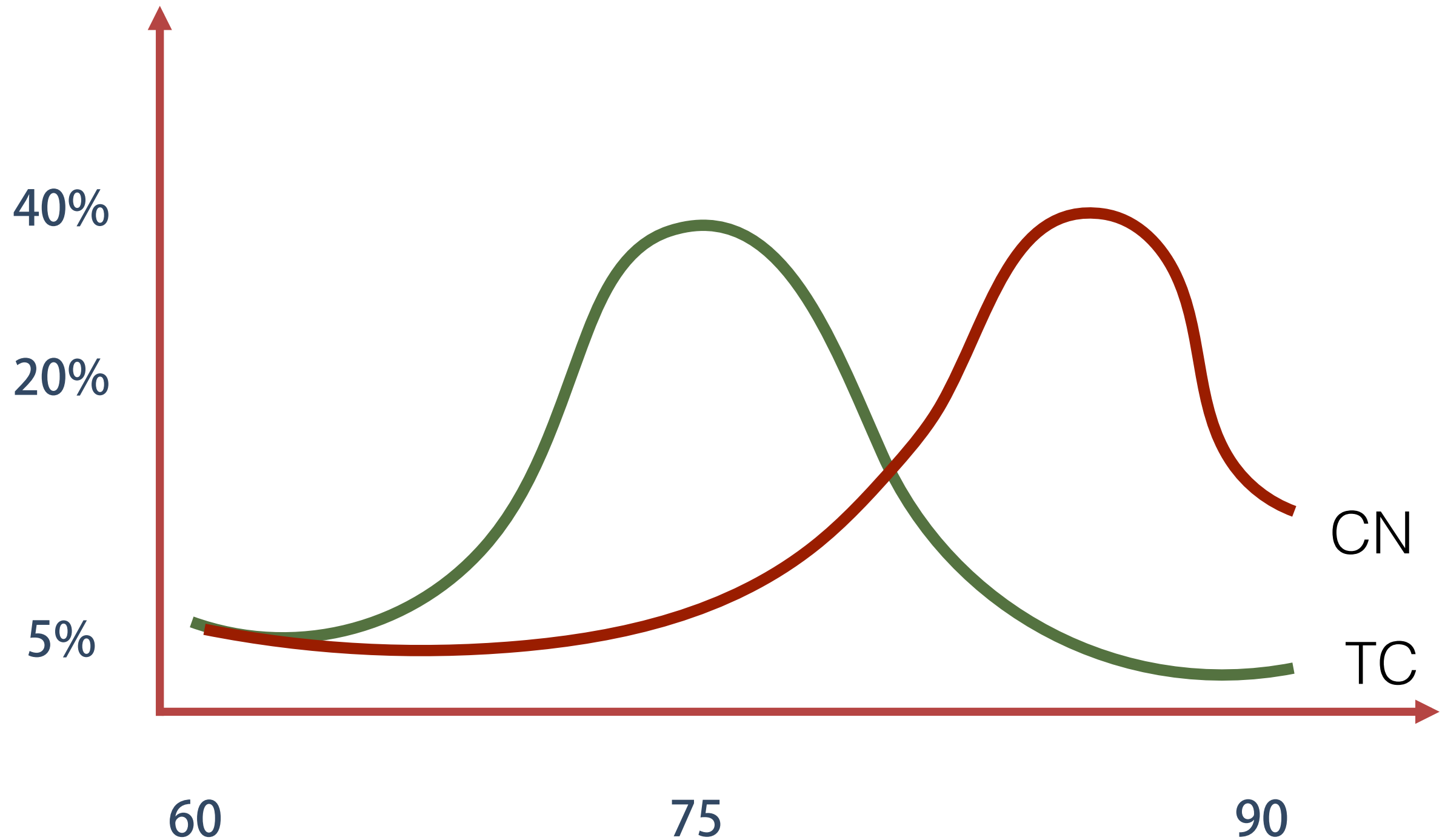
Practice Based Learning

Credit MOOC Course in CNMOOC



Grade distribution of traditional Chinese medicine and culture of 2014 autumn

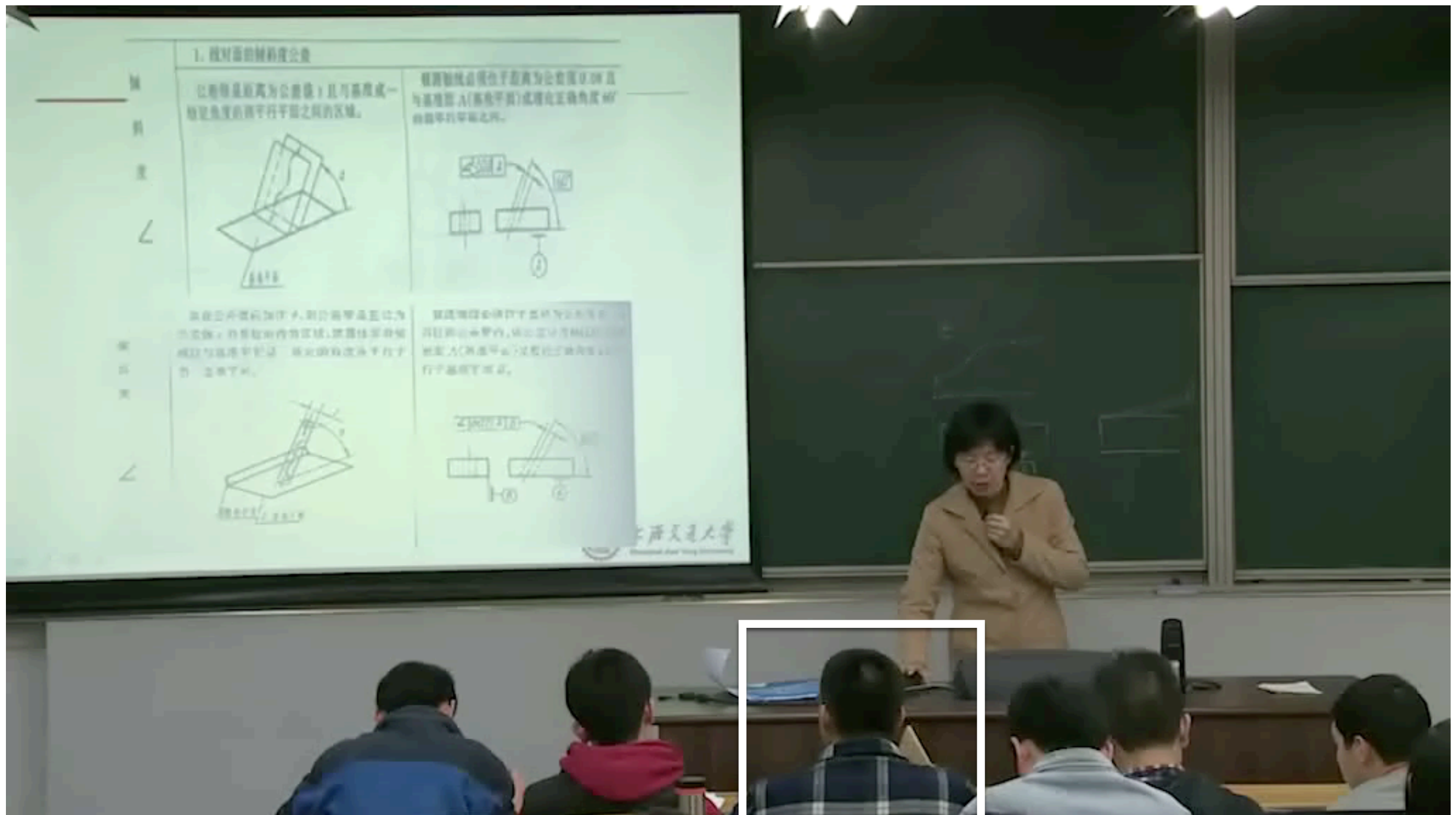
Credit MOOC Course in CNMOOC Vs Traditional Classroom Teaching



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Engineering Graphics in Traditional Classroom



Shaking Fan

Engineering Graphics in CNMOOC

形体分析:

基本组成部分

组合关系



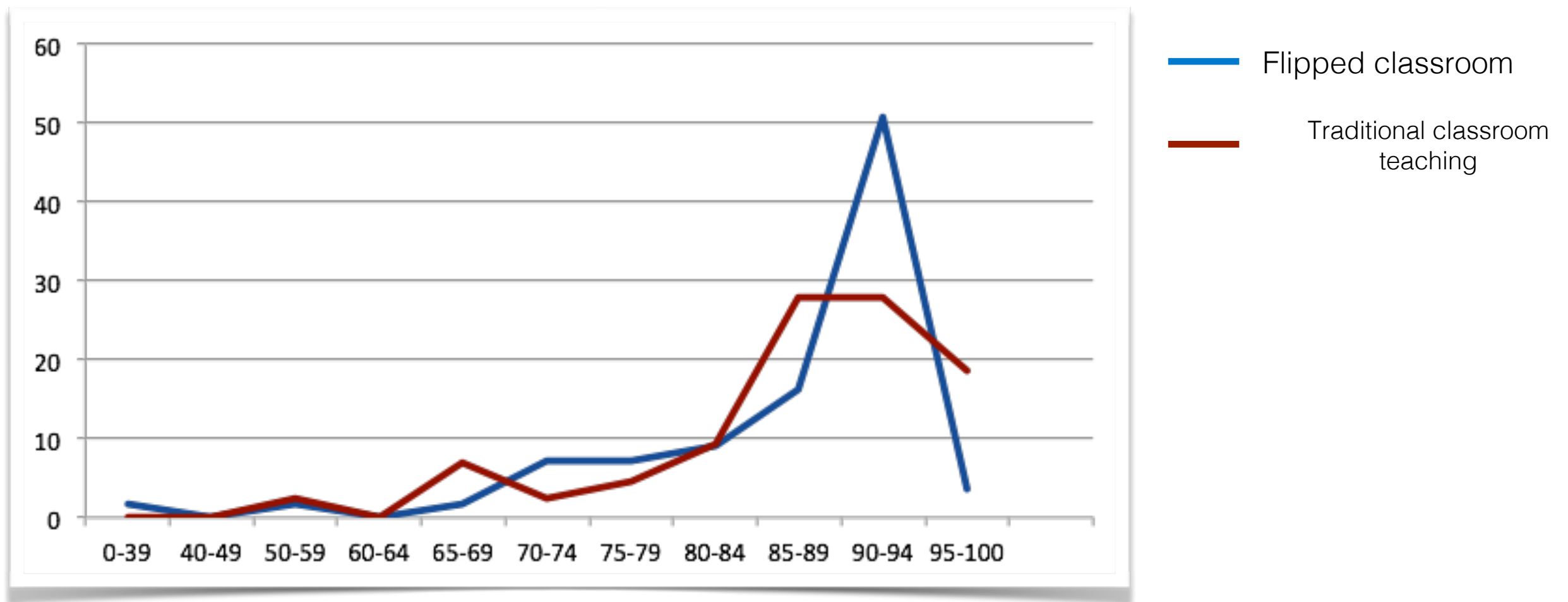
Easy to study for online learners

From MOOC to Flipped Classroom

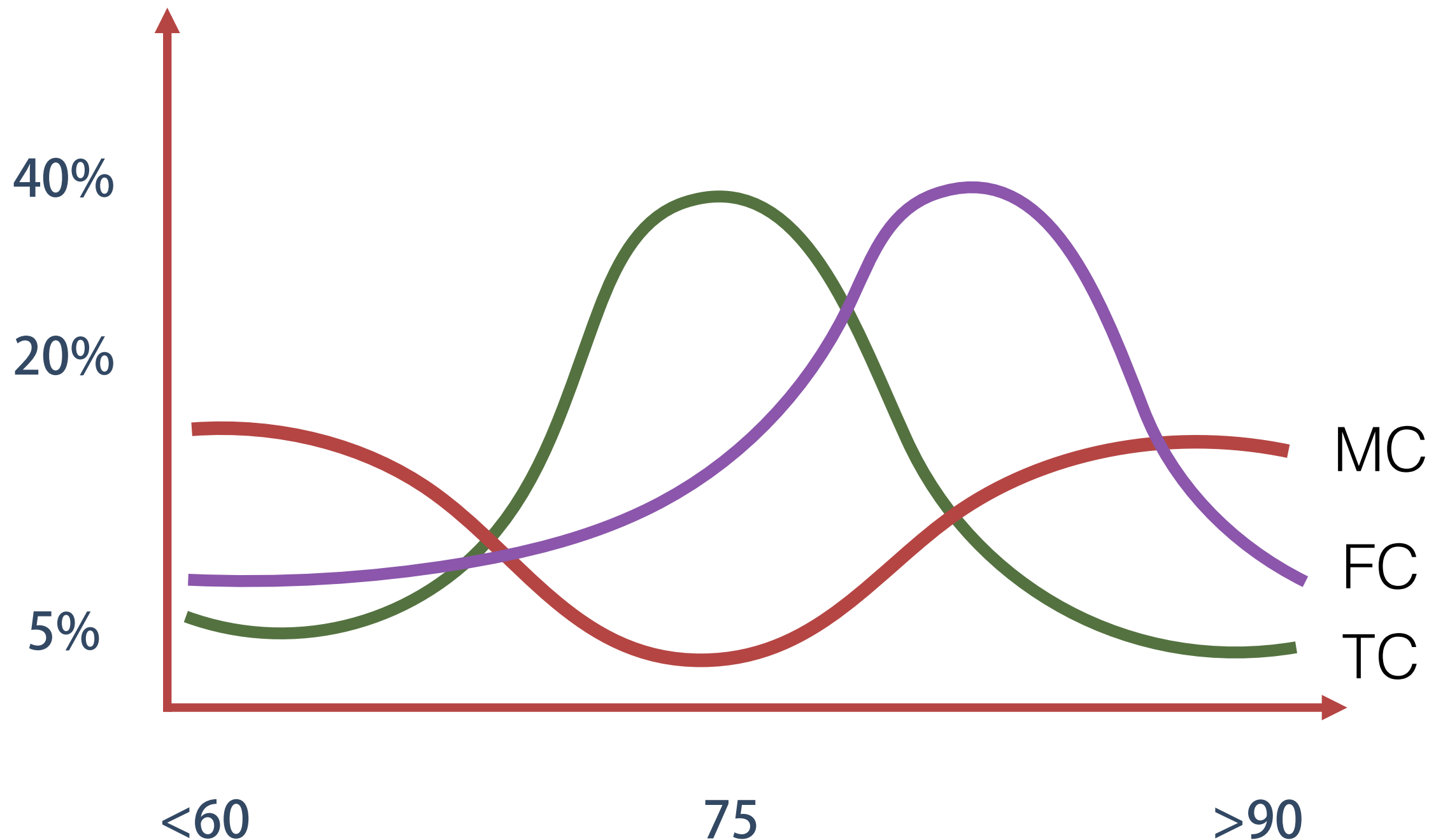


After online video study on CNMOOC SPOC site
Problem Based Learning in Flipped Classroom

From traditional classroom teaching to flipped classroom



The Grade Distribution from Different Teaching and Learning Mode



Thanks

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