

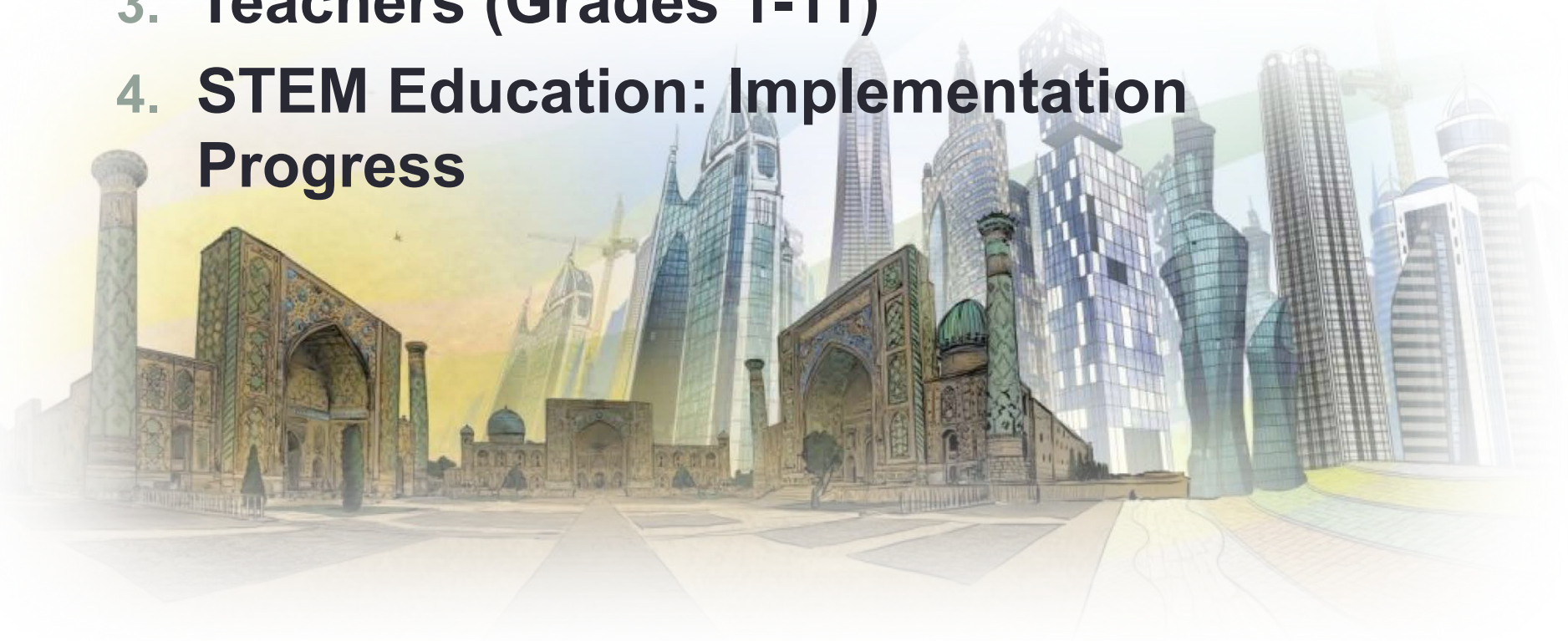
# REPUBLIC OF UZBEKISTAN



## MINISTRY OF PUBLIC EDUCATION

# CONTENT:

1. General information
2. STEM Curriculum
3. Teachers (Grades 1-11)
4. STEM Education: Implementation Progress



# General information



**Population:**  
33.3 mln



**Schools:**  
9,691



**1-11 grades:**  
over 5.8 mln

## Main languages of education:



Uzbek



Karakalpak



Russian



Kazakh



Tajik



Kyrgyz



Turkmen

## Main foreign languages taught:



89.6 %



4.3 %



6.1 %

School survival rates  
(1-11 grades):

**99.9%**

% of students who  
pursue tertiary  
education: about

**12%**  
(2018)

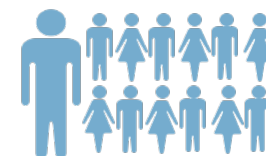
## School gender ratios:

**0,52**



**0,48**

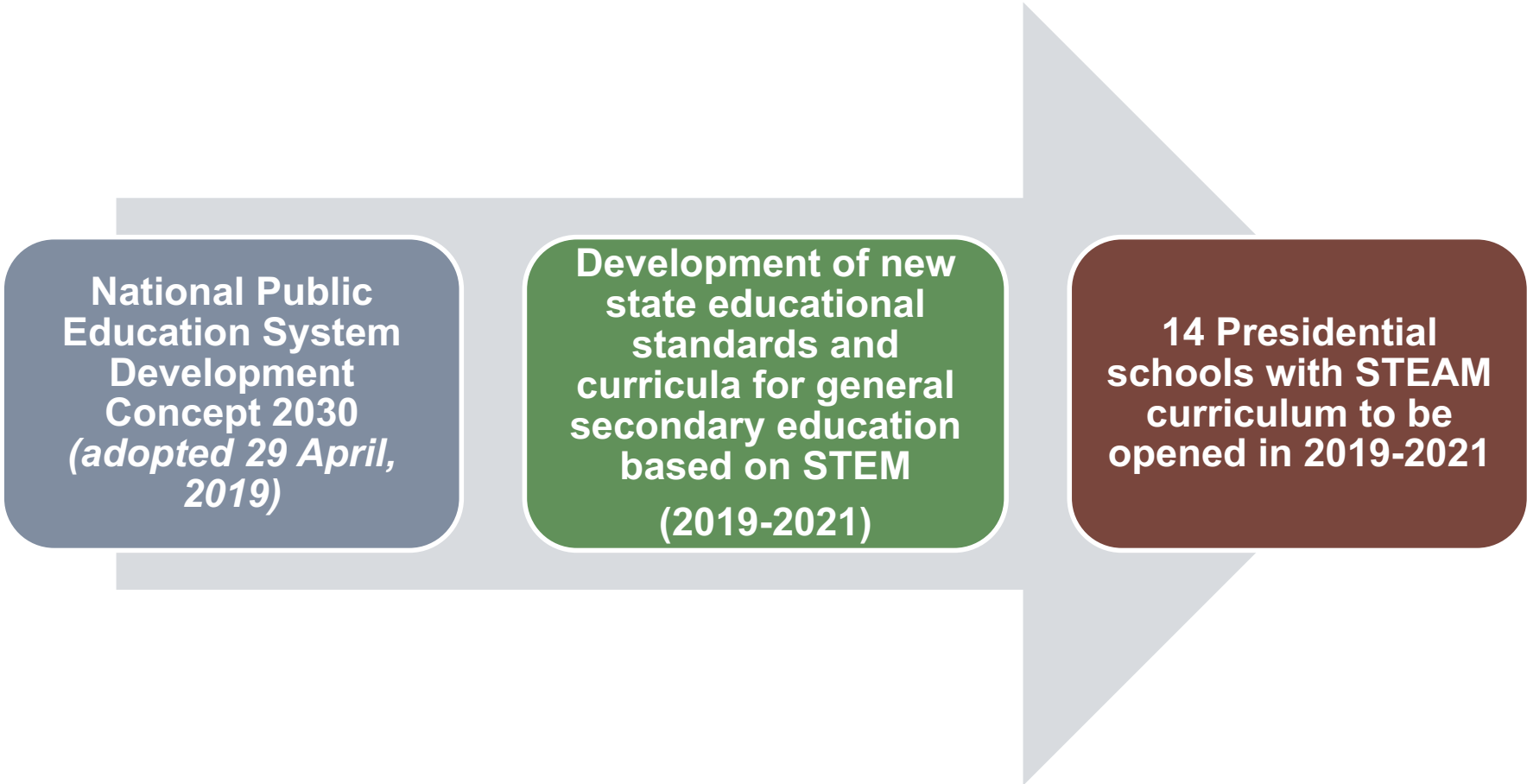
**13:1**



**Pupils to teacher ratio**

# STEM Curriculum

Uzbekistan is at early stage of introducing STEM into school curriculum

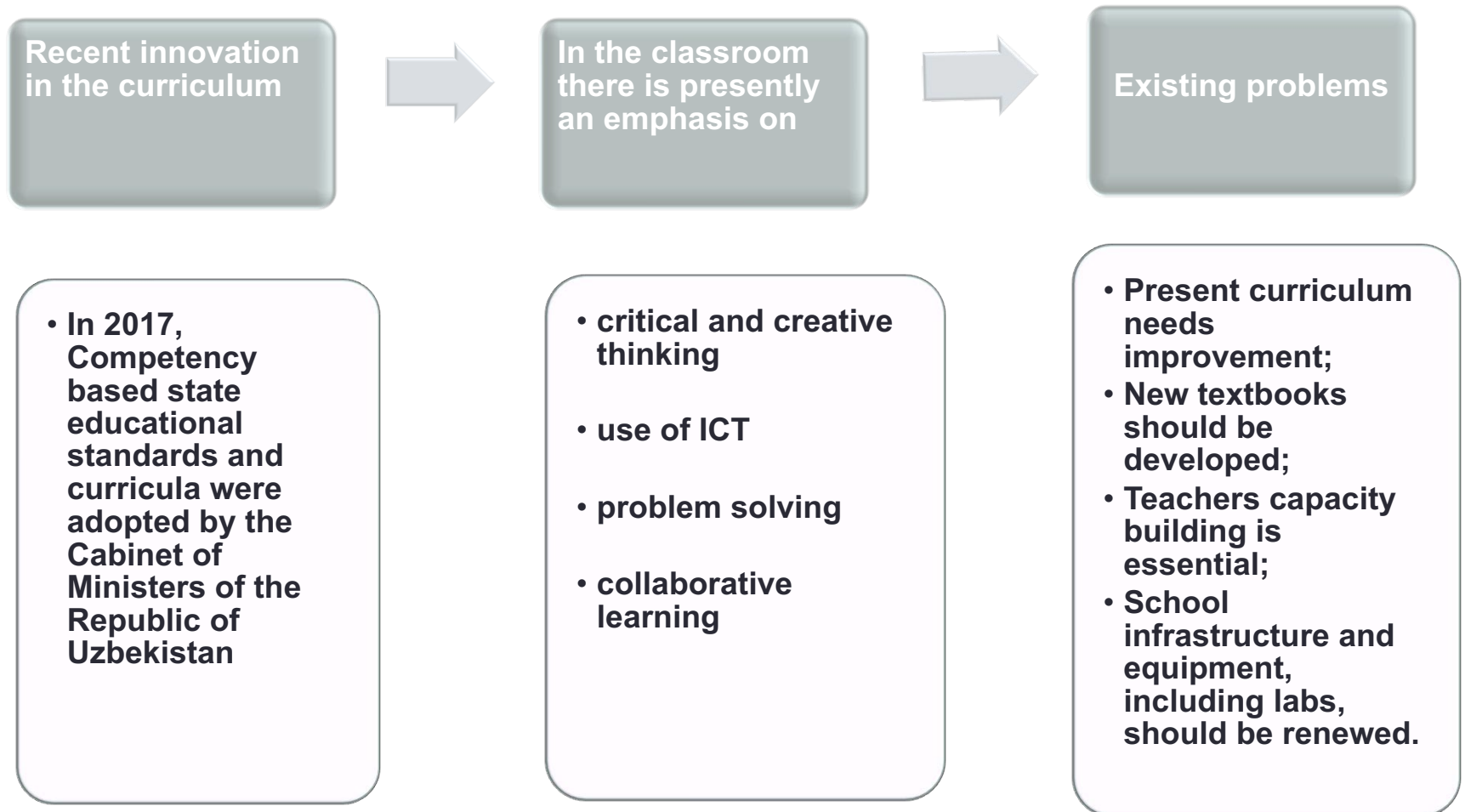


**National Public  
Education System  
Development  
Concept 2030**  
*(adopted 29 April,  
2019)*

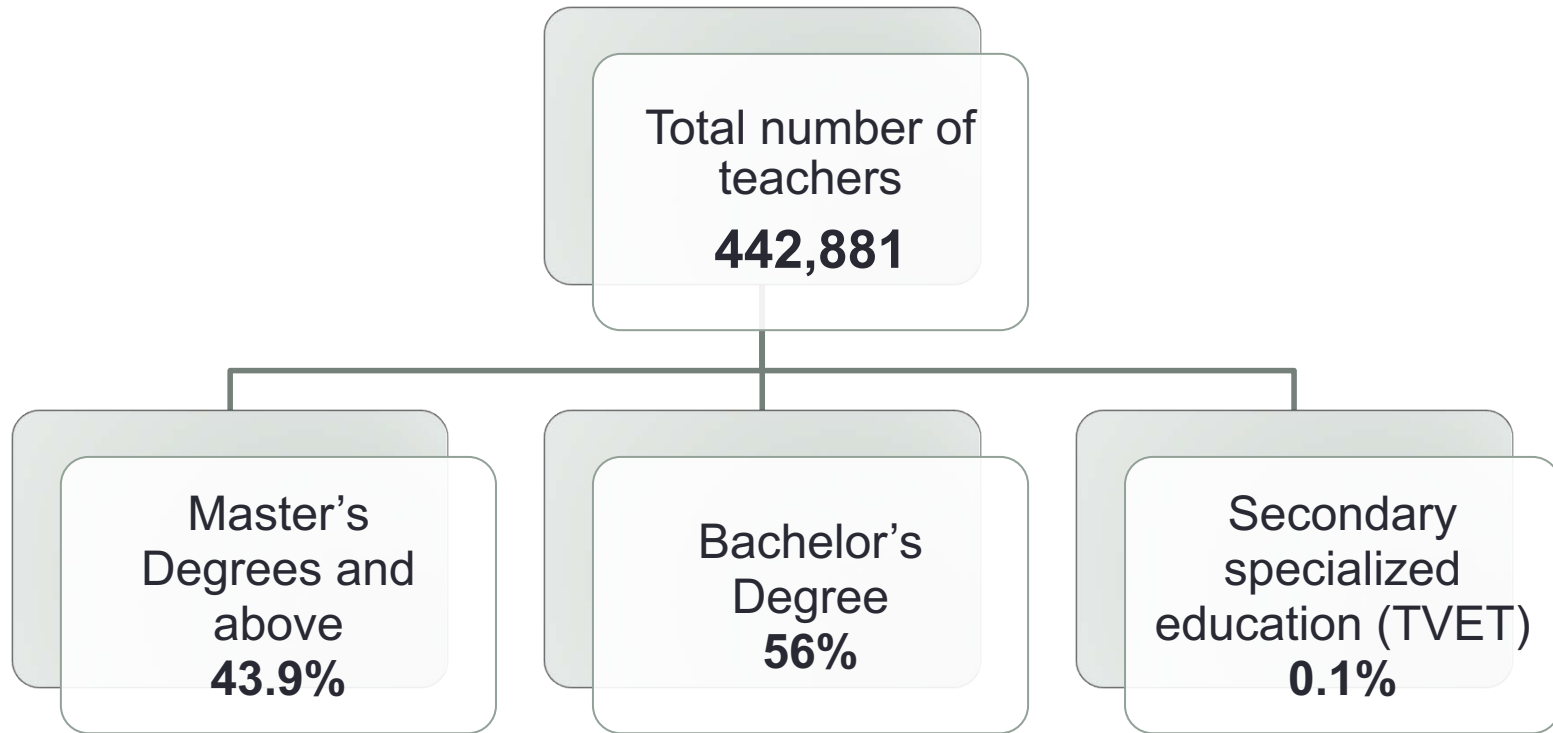
**Development of new  
state educational  
standards and  
curricula for general  
secondary education  
based on STEM**  
**(2019-2021)**

**14 Presidential  
schools with STEAM  
curriculum to be  
opened in 2019-2021**

# STEM Curriculum



# Teachers (Grades 1-11):



## **2 types of teacher training courses are available:**

1. Regional Centers for retraining and in-service training of public education personnel once in 5 years (duration is 1 month – 144 hours).
2. Teacher Training courses of secondary school teachers. Once a week (during an academic year).

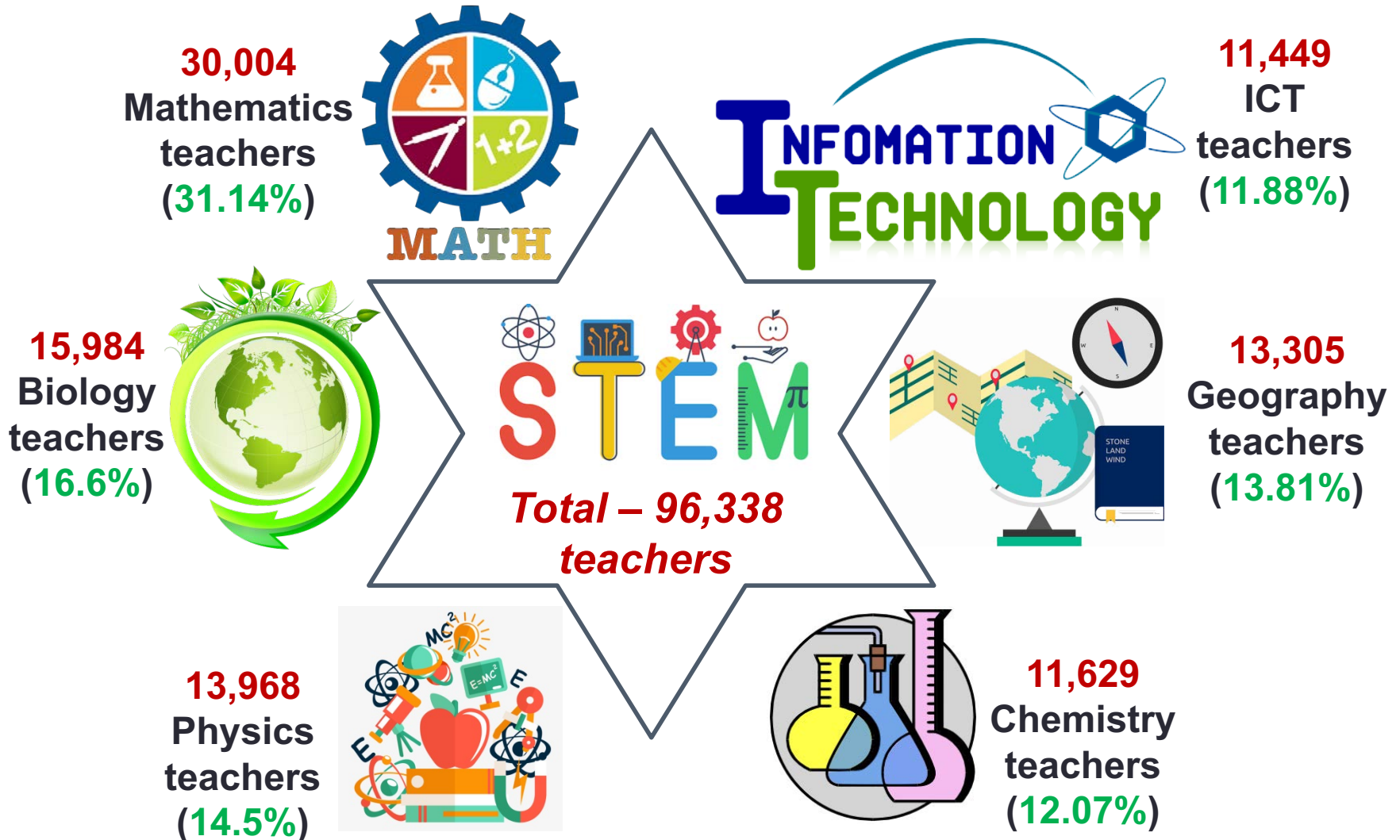


# Teachers (Grades 1-11):

Standard teacher training course curriculum (1 month, 144 hours)

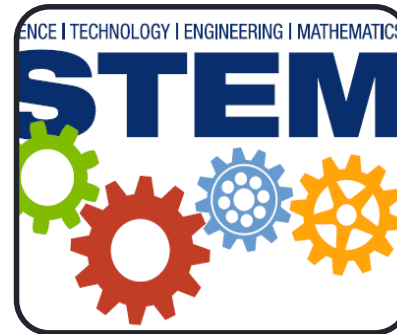
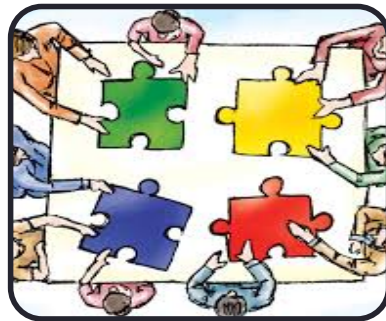
Module name	Mathematics	Physics	Chemistry	Biology	Geography	ICT
<b>1. Legal and regulatory basics of education</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>
<b>2. Teaching and learning technologies and pedagogical skills</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>
<b>3. Using of ICT in the educational process</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>
<b>4. Specialized subjects</b>	<b>82</b>	<b>82</b>	<b>82</b>	<b>82</b>	<b>82</b>	<b>82</b>
4.1. Modern approaches and innovations of teaching subjects	24	24	24	24	24	24
4.2. Methods of teaching subjects	54	54	54	54	54	54
4.3. Selection Training Module	4	4	4	4	4	4
<b>5. Classification exam</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>Total:</b>	<b>144 hours</b>					

# Teachers (Grades 1-11):





# STEM Education Implementation Progress



**adopt new  
SES,  
curricula and  
training  
programs,  
develop  
textbooks  
and  
methodical  
guidelines**

**improve  
curricula,  
teacher  
retraining and  
advanced  
training  
programs  
conduct training  
for teachers and  
improve their  
skills**

**move to STEM  
over a period  
of 3-5 years  
(as in the case  
of foreign  
languages)**

**improve the  
material and  
technical  
base of  
schools  
(laboratories  
computer  
classes)**



**E'TIBORINGIZ  
UCHUN RAXMAT!**