Subject: Maths

Number of the lessons: 5

Teacher: Regina Ratkevičienė

Topic: A number line. Coordinates plate.

Aim and objectives: Students will learn what a number line is, coordinates in it, will learn how to find point coordinates and what coordinates plate is and how to find point coordinates in it.
Students will be able to:
1. Draw the number line and choose the right line.
2. In a number line mark a point, when the coordiantes are known, and write the marked point's coordinates.
3. Draw a coordiantes plate, write the points, marked in the coordinates plate, coordinates.
4. Mark points with known coordinates in a coordinates plate.

Tools:
Computer with access to the Internet
Tablets with access to the Internet
Mobile phones with access to the Internet

Sequence:
1. A number line.
2. Coordinates plate
3. Point's coordinates in the coordinates plate.
4. Points, which are said, marking.
5. Project: Drawings in the coordinates palte.

Web tools:

Microsoft Office PowerPoint 2007

https://www.liveworksheets.com

https://learningapps.org

GeoGebra

https://www.geogebra.org/

1	**Learn**
	Learn how to draw a number line.
	Write marked point coordinates.
	Skaičių tiesė. Taškai skaičių tiesėje.
	6 klasė
2.	**Practice:**
	1. Complete the task: https://learningapps.org/19527874
	2. Complete the task: https://learningapps.org/19528791
3.	**Practice:**
	Complete the task: https://www.geogebra.org/classic/byg3bu6q
4.	**Homework:**
	Complete the crossword: https://learningapps.org/19529432

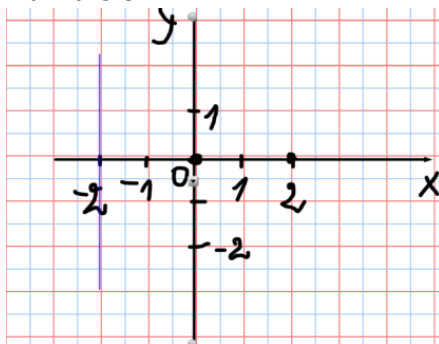| 1	**Learn:**
	How to draw a coordinates plate.
	Write marked ponts' coordinates.
	Koordinačių plokštuma 6 klasė
2.	**Practice:** https://www.liveworksheets.com/qe741419yh
3.	**Homework:** Complete the crossword: https://learningapps.org/19533868

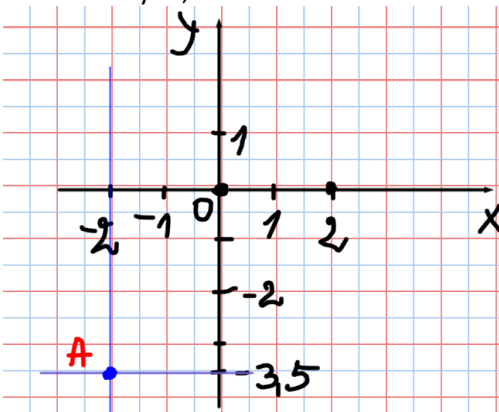| 1.	**Learn:**
	Learn to mark the point when we know its coordinates.
	
	The task:
	 Mark the point A in coordinates plate: A (-2; -3,5)
	
	   1. Mark the Ox -2
	
	   2. Mark the Oy -3,5
	
	   3. Draw the lines until they cross each other
	
	   4. The drawn lines' intersection point A coordinates are: -2 and 3,5.

2.	**Practice:** Choose the point tool in the app Geogebra, mark the points in a coordinates plate: A(5,5; 1); B(6; -1); C(2; 0), D(-2; -2,5); E(4,5; -5); F(0; -3); G(-2; 0,5) https://www.geogebra.org/classic/dkacv69z
3.	**Practice:** Choose one line, mark some points there and one by one, join them by lines: A(3; 1); B(1; 4); C(-1; 1) D(-3; 1); E(-2; -2), F(4; -2), G(5; 1). Finally, join the point G line with the point C. https://www.geogebra.org/classic/ycjvkvff The answer: https://www.geogebra.org/classic/stnamg4e

1	1. Use the table below to complete the task

1	2	3	4	5	6	7	8	9	10
A	Ą	B	C	Č	D	E	Ę	Ė	F
G	H	I, Į	Y	J	K	L	M	N	O
P	R	S	Š	T	U, Ų	Ū	V	Z	Ž

2. By using the app Geogebra, each student will create his name's shape.
   e.g.

RŪTA

Vardo raidės	Raidės atitinkantys skaičiai	
	x	y
R Ū	2	7
Ū T	7	5
T A	5	1
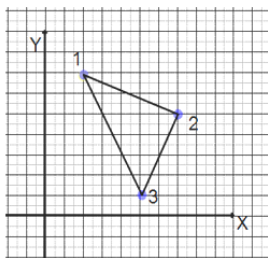
RYTENIS

Vardo raidės	Raidės atitinkantys skaičiai	
	x	y
R Y	2	4
Y T	4	5
T E	5	7
E N	7	9
N I	9	3
I S	3	3

2.	**Students' works:** https://www.geogebra.org/classic/ecgu3bdv
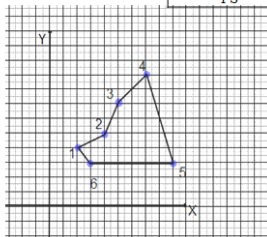
ANŽELIKA

Vardo reikšmės	Raides atitinkančios reikšmės	
	x	y
AN	1	9
ŽE	10	7
LI	7	3
KA	6	1

https://www.geogebra.org/classic/wgtbuyrs
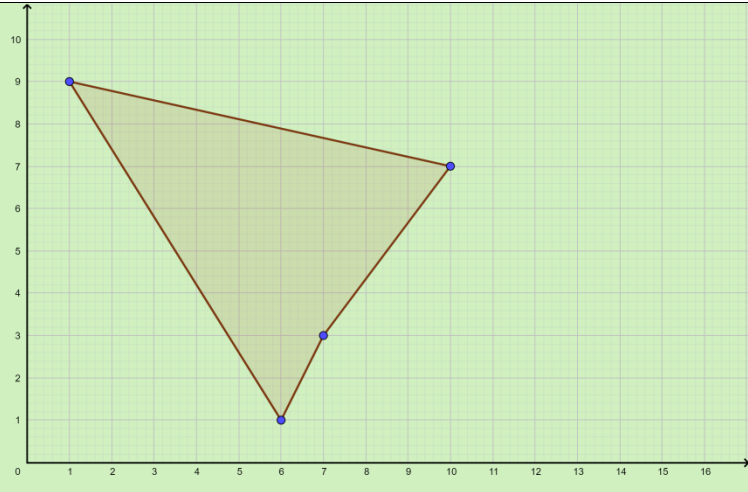
VERONIKA

Vardo reikšmės	Raides atitinkančios reikšmės	
	x	y
VE	8	7
RO	2	10
NI	9	3
KA	6	1

https://www.geogebra.org/classic/ve3gncgx
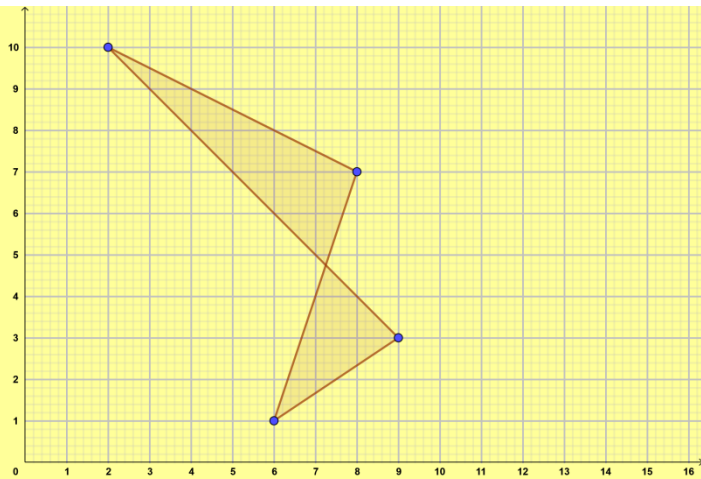
LAIMONAS

Vardo reikšmės	Raides atitinkančios reikšmės	
	x	y
LA	7	1
AI	1	3
MO	8	10
NA	9	1
AS	1	3
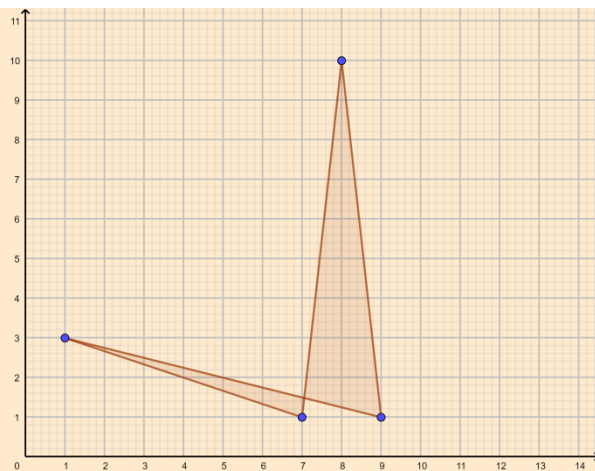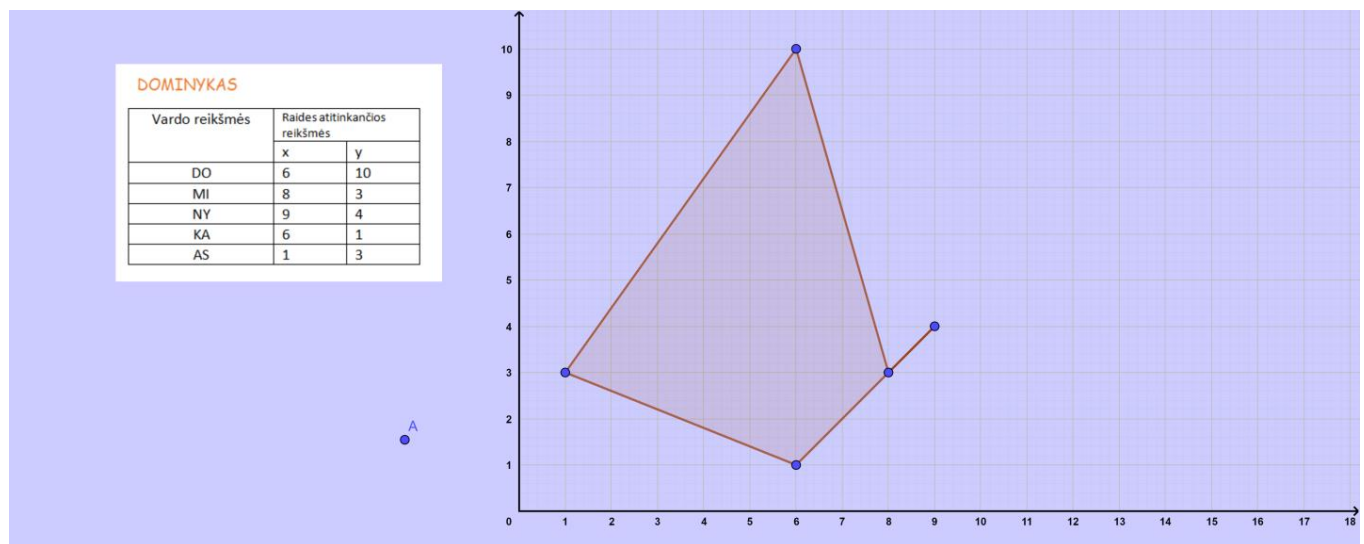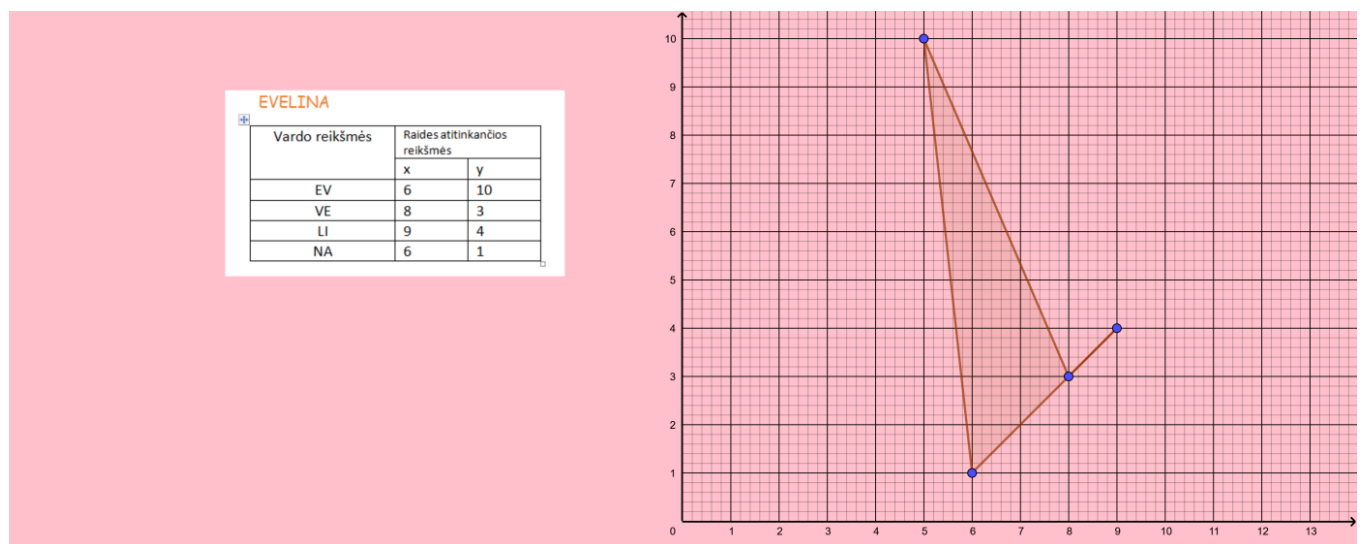
https://www.geogebra.org/classic/pyxqghxb

DOMINYKAS

Vardo reikšmės	Raidės atitinkančios reikšmės	
	x	y
DO	6	10
MI	8	3
NY	9	4
KA	6	1
AS	1	3

https://www.geogebra.org/classic/wpcjjs6s

EVELINA

Vardo reikšmės	Raidės atitinkančios reikšmės	
	x	y
EV	6	10
VE	8	3
LI	9	4
NA	6	1

Project:
Draw an animal using app Geogebra:

1. ,,Arklys"
https://www.geogebra.org/m/sez83eme

Arklys
1) (14; - 3), (6,5; 0), (4; 7), (2; 9), (3; 11), (3; 13), (0; 10), (- 2; 10), (- 8; 5,5),
(- 8; 5), (- 7; 2), (- 5; 3), (- 5; 4,5), (0; 4), (- 2; 0), (- 2; - 3), (- 5; - 1), (- 7; - 2),
(- 5; - 10), (- 2; - 11), (- 2; - 8,5), (- 4; - 8), (- 4; - 4), (0; - 7,5), (3; - 5).
2) Akis: (- 2; 7).

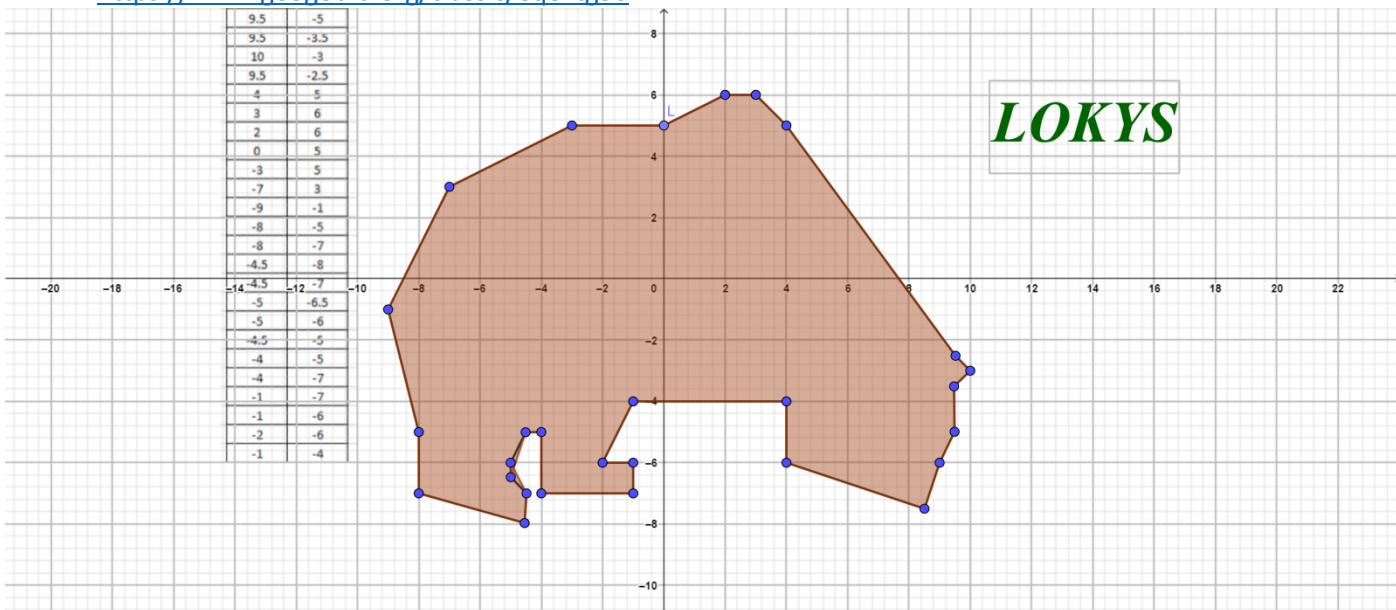|	
9.5	-5
9.5	-3.5
10	-3
9.5	-2.5
4	5
3	6
2	6
0	5
-3	5
-7	3
-9	-1
-8	-5
-8	-7
-4.5	-8
-4.5	-7
-5	-6.5
-5	-6
-4.5	-5
-4	-5
-4	-7
-1	-7
-1	-6
-2	-6
-1	-4

LOKYS

7	-15
6.5	-13
6.5	-11
7	-9
8.5	-8
9.5	-6
10	-4
9.5	-2
8	0
7	1
6.5	2
6.5	4
7	4
7.5	6
8.5	7
7.5	7.5
8	8
10.5	8
10.5	8.5
10	9.5
9	10
8	10
6.5	9.5
5	8.5
4	7.5
3	6.5
2	8
2.5	10
2	11
1	12
-1	12
-2.5	11
-2.5	9

VAIDUOKLIS

7	-7	-7	-6,5	-6	-5	-3,5	-5	-4,5	-3	-1,5	1,5	3	4,5	5	3,5	5	6	6,5
5	5	6	7,5	8,5	9,5	10,5	13	13	11	11,5	11,5	11	13	13	10,5	9,5	8,5	7,8

7	7	6	4	4	3	2	1	1	-1	-1	-2	-3	-4	-4	-6	-7	-7
4,5	-6	-7	-7	-11	-12	-12	-11	-7	-7	-11	-12	-12	-11	-7	-7	-6	4.5

-11	-11	-10	-9	-8	-8	-9	-10	-11
-4	3,5	4,5	4,5	3,5	-4	-5	-5	-4

ROBOTAS