

Math PBL

Co-ordinate City



The Task:

To use a co-ordinate plane to design and take over cities



Requirements:

You will design your own city on a co-ordinate plane, using the community buildings provided. Follow the directions on each page using the correct number of buildings. Ensure that all buildings are placed within the graph lines.

Then verse another person to play a 'battleships' style game of City Takeover. The aim is to use the grid co-ordinates to find and claim all of the other person's buildings. You may then design your own version of the game.

Included Concepts:

- Co-ordinates with numbers
- Co-ordinates with numbers and letters
- 4 quadrant co-ordinates



Real World Mini Math Project



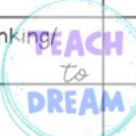
Steps to Take:

1. Find the co-ordinate plane/ graph that you will be using.
2. Glue your buildings correctly into place.
3. Find a partner to play the game with.
4. Sit back to back. Take turns guessing the location of the buildings using the correct co-ordinates.
5. First one to claim all buildings wins.



Assessment:

Concepts accurately covered	/5
All sections completed to a high standard	/5
On task work ethic	/5
Clearly shows mathematical thinking/ working out	/5
Comment:	/20



Students Will Love!

Detailed Student Outline with Concepts & Steps Covered



Co-ordinate City

The Task:

To use a co-ordinate plane to design and take over cities

Included Concepts:

- Co-ordinates with numbers
- Co-ordinates with numbers and letters
- 4 quadrant co-ordinates



Requirements:

Design your own city on a co-ordinate plane. Community buildings provided. Place buildings on each page using the co-ordinates. Ensure that all buildings are placed within the graph lines. Play a game of City Takeover. The winner is the student who finds and takes over the most buildings. This is a fun version of the

Real World Mini Math

Steps to Take:

1. Find the co-ordinate plane/ graph that you will be using. Glue your buildings correctly into place.
2. Find a partner to play the game with.
3. Sit back to back. Take turns guessing the location of the buildings using the correct co-ordinates.
5. First one to claim all buildings wins.

Assessment:

Can correctly use co-ordinates with number, number to locate a place.	15
Can correctly use co-ordinates with alphabet, number to locate a place.	15
Can correctly use co-ordinates with 4 quadrants to locate a place.	15
Clearly shows mathematical thinking/ working out	15
Comment:	120



Easy to Use Worksheets Included

Co-ordinate City Map

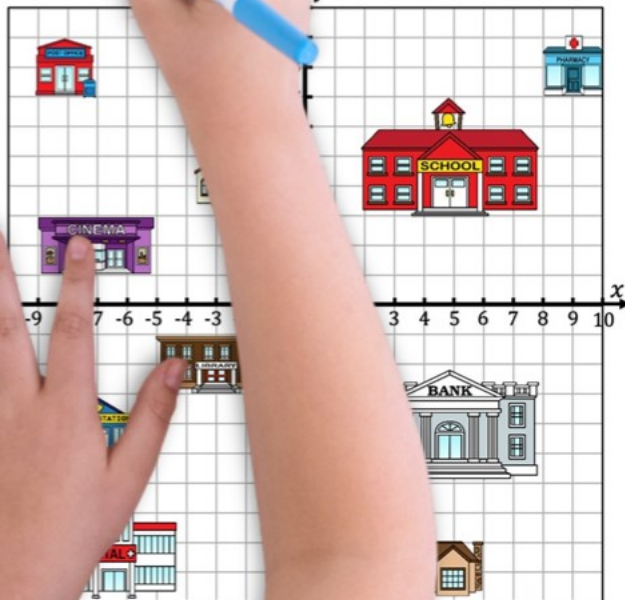
1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F
G
H
I
J

Cut these buildings out and glue on your coordinate city – making sure they are inside the boxes. Don't let your playing partner see the locations!



Co-ordinate City



Example & Rules 4 Quadrants

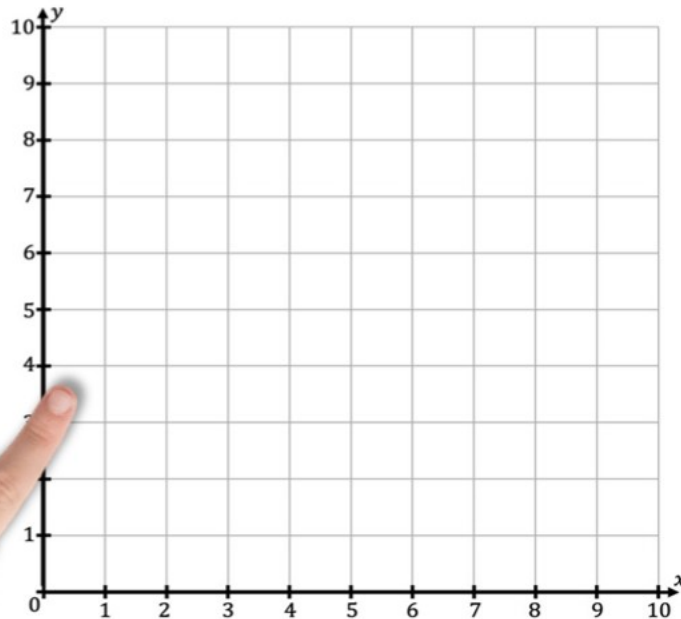
Choose a partner who has made their own co-ordinate city

Try to take over their city...before they take yours!

Take it in turns calling out Co-ordinate grids. If they have a building at that co-ordinate they say 'hit' and you put a green cross on that co-ordinate.

When it is their turn if they get a hit on yours, label the co-ordinate with a red cross. First one to take all the buildings wins.

Digital & Printable Google Slides Option



Co-ordinate Map With letters and numbers



Now it is your turn to
make your own
co-ordinate game!

What theme will you come
up with?

- A different city
- The Jungle
- Out of space
- One of your own

Make up game pieces that suit
your theme.

2 that are one square in size
2 that are two squares in size
1 that is 4 squares in size
1 that is 6 squares in size
You can decide the others

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to
DREAM

Quick Teacher & Self / Peer Assessment

Assessment

Mini Math Project: Co-ordinate City

Concepts accurately covered	/5
All sections completed to a high standard	/5
Clearly shows mathematical thinking/ working out	/5
On task work ethic	/5
Total:	/20

Comment:

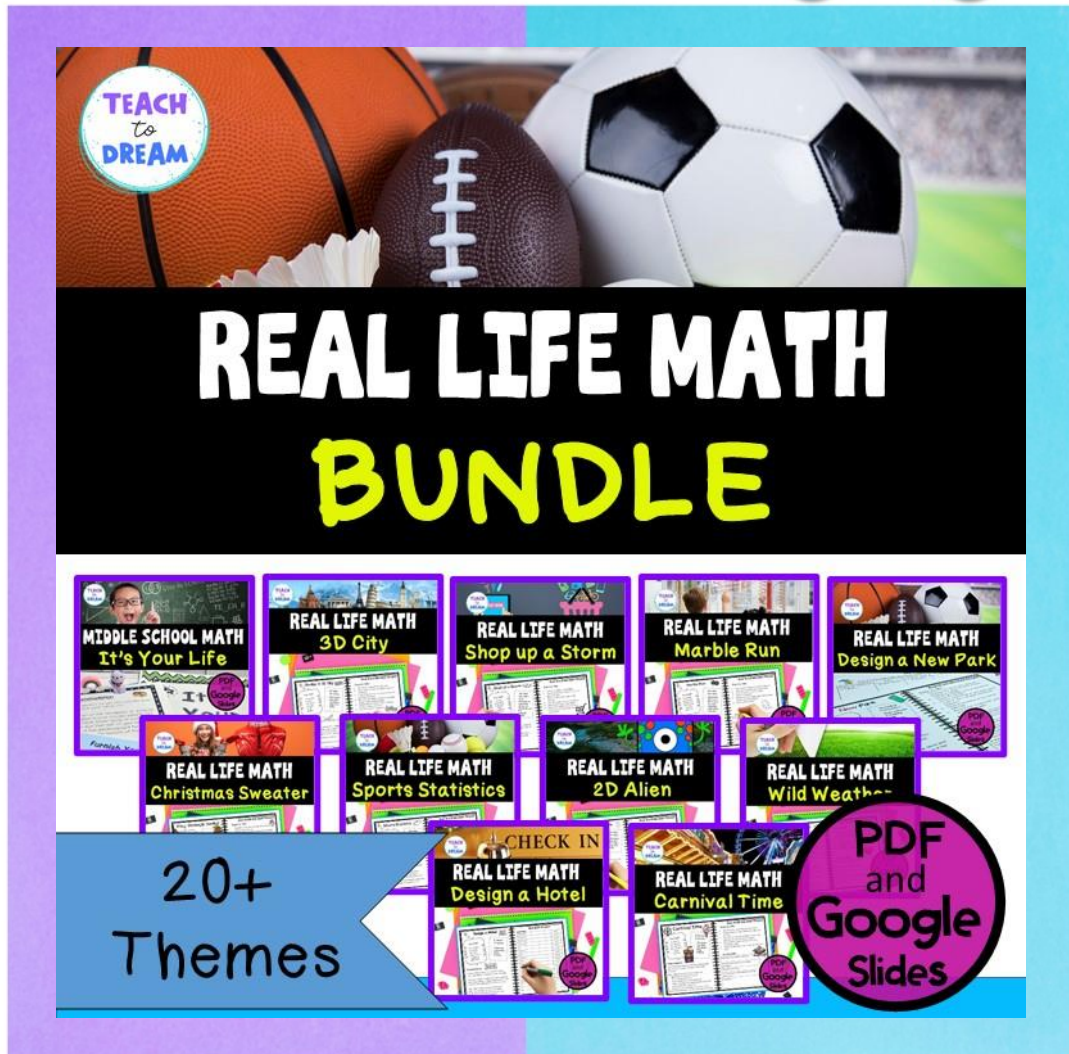
Self/ Peer Assessment:

Mini Math Project: Co-ordinate City

Shows mathematical thinking	1 2 3 4 5
Easy to follow/ understand	1 2 3 4 5
Mathematical concepts are completed accurately	1 2 3 4 5
On task work ethic during lessons/ task assignment	1 2 3 4 5
Total:	/20

Best part of the project	Ideas for improvement

Interested in PBL writing Tasks that Engage?



TEACH to DREAM

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REAL LIFE MATH
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REAL LIFE MATH
Marble Run

REAL LIFE MATH
Design a New Park

REAL LIFE MATH
Christmas Sweater

REAL LIFE MATH
Sports Statistics

REAL LIFE MATH
2D Alien

REAL LIFE MATH
Wild Weather

20+ Themes

CHECK IN
REAL LIFE MATH
Design a Hotel

REAL LIFE MATH
Carnival Time

PDF and Google Slides

The advertisement features a central image of a basketball, a football, and a soccer ball. Below this, the text 'REAL LIFE MATH BUNDLE' is prominently displayed. A collection of ten smaller images shows various math project themes, each with a title and a small '20+ topics' badge. A blue banner on the left indicates '20+ Themes', and a purple circle on the right specifies 'PDF and Google Slides'.

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