# SECONDARY 1 EXPRESS <br> LESSON 1 

## TOPIC: MAP READING <br> MAP SKILLS

Name: $\qquad$ ( ) Class: $\qquad$ Date: $\qquad$

Today's Map Reading lesson is on applying your knowledge of bearings and compass directions.
Students are to work in groups of four to find the bearing and compass direction of:

## Example: Rubber tree from Coconut tree

Task 1. Student \#1: Banana tree from Rubber tree
Task 2. Student \#2: Mangrove tree from Banana Tree
Task 3. Student \#3: Bamboo from Boat
Task 4. Student \#4: Boat from Bamboo

Example: Finding Bearing and Compass Direction of
Rubber tree from Coconut tree


Instructions:

- Teleport your avatar to coconut tree.


## Find coordinates

Click on "World" and select 'Show' followed by 'Coordinates'. You will be able to see this:


This is how you read the coordinates of the coconut tree:

| $\mathrm{X}: 168$ | $\mathrm{Y}: 99$ |
| :---: | :---: |

[^0]
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Coordinates of coconut tree: 168,99 .

- Record the coordinates in the table below.
- Plot the coconut tree on the grid in the INSERT.
- Turn your avatar so that you can see your next destination, rubber tree.
- Teleport there and note the direction.
- Record the direction in the table below.
- Record the coordinates of rubber tree in the table below.
- Plot the rubber tree on the grid in the INSERT.
- Find Bearing

Step 1: Draw a straight line joining coconut tree and rubber tree.
Step 2: Draw the north arrow
Step 3: Measure the angle from the north to the straight line (clockwise)
Step 4: Bearing to be given in 3-digit figure.

| Coordinates of Coconut tree |  |
| :--- | :--- |
| Coordinates of Rubber tree |  |
| Compass direction of Rubber tree from Coconut tree |  |
| Bearing of Rubber tree from Coconut tree |  |

[^1]
## Task 1. Student \#1: Banana tree from Rubber tree

## Instructions:

- Teleport your avatar to rubber tree.


## Find coordinates

Click on "World" and select 'Show' followed by 'Coordinates'. You will be able to see this:

- Record the coordinates in the table below.
- Plot the rubber tree on the grid in the INSERT.
- Turn your avatar so that you can see your next destination, banana tree.
- Teleport there and note the direction.
- Record the direction in the table below.
- Record the coordinates of banana tree in the table below.
- Plot the banana tree on the grid in the INSERT.
- Find Bearing

Step 1: Draw a straight line joining banana tree and rubber tree.
Step 2: Draw the north arrow
Step 3: Measure the angle from the north to the straight line (clockwise)
Step 4: Bearing to be given in 3-digit figure.

| Coordinates of rubber tree |  |
| :--- | :--- |
| Coordinates of banana tree |  |
| Compass direction of Banana tree from Rubber tree |  |
| Bearing of Banana tree from Rubber tree |  |

[^2]
## Task 2. Student \#2: Mangrove tree from Banana Tree

## Instructions:

- Teleport your avatar to Banana tree.


## Find coordinates

Click on "World" and select ‘Show' followed by 'Coordinates'. You will be able to see this:

- Record the coordinates in the table below.
- Plot the banana tree on the grid in the INSERT.
- Turn your avatar so that you can see your next destination, mangrove tree.
- Teleport there and note the direction.
- Record the direction in the table below.
- Record the coordinates of mangrove tree in the table below.
- Plot the mangrove tree on the grid in the INSERT.
- Find Bearing

Step 1: Draw a straight line joining mangrove tree and banana tree.
Step 2: Draw the north arrow
Step 3: Measure the angle from the north to the straight line (clockwise)
Step 4: Bearing to be given in 3-digit figure.

| Coordinates of banana tree |  |
| :--- | :--- |
| Coordinates of mangrove tree |  |
| Compass direction of mangrove tree from Banana tree |  |
| Bearing of mangrove tree from Banana tree |  |

[^3]
## Task 3. Student \#3: Bamboo from Boat

## Instructions:

- Teleport your avatar to Boat.


## Find coordinates

Click on "World" and select 'Show' followed by 'Coordinates'. You will be able to see this:

- Record the coordinates in the table below.
- Plot the boat on the grid in the INSERT.
- Turn your avatar so that you can see your next destination, bamboo.
- Teleport there and note the direction.
- Record the direction in the table below.
- Record the coordinates of bamboo in the table below.
- Plot the bamboo on the grid in the INSERT.
- Find Bearing

Step 1: Draw a straight line joining bamboo and boat.
Step 2: Draw the north arrow
Step 3: Measure the angle from the north to the straight line (clockwise)
Step 4: Bearing to be given in 3-digit figure.

| Coordinates of boat |  |
| :--- | :--- |
| Coordinates of bamboo |  |
| Compass direction of bamboo from boat |  |
| Bearing of bamboo from boat |  |

[^4]
## Task 4. Student \#4: Boat from Bamboo

## Instructions:

- Teleport your avatar to Bamboo.


## Find coordinates

Click on "World" and select 'Show' followed by 'Coordinates'. You will be able to see this:

- Record the coordinates in the table below.
- Plot the bamboo on the grid in the INSERT.
- Turn your avatar so that you can see your next destination, boat.
- Teleport there and note the direction.
- Record the direction in the table below.
- Record the coordinates of boat in the table below.
- Plot the boat on the grid in the INSERT.
- Find Bearing

Step 1: Draw a straight line joining bamboo and boat.
Step 2: Draw the north arrow
Step 3: Measure the angle from the north to the straight line (clockwise)
Step 4: Bearing to be given in 3-digit figure.

| Coordinates of bamboo |  |
| :--- | :--- |
| Coordinates of boat |  |
| Compass direction of boat from bamboo |  |
| Bearing of boat from bamboo |  |

[^5]
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## Suggestions

What else should also be included in the map?
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Reflection

Has the use of Second Life helped you to apply and understand your knowledge on bearings and compass directions better? Explain your answer.
$\qquad$
$\qquad$
$\qquad$

[^6]
[^0]:    Source: Dr Kenneth Lim, Project OER 05/09 LYT, funded by the Education Research Funding Programme, National Institute of Education (NIE), Nanyang Technological University, Singapore; and Projects NRF2011-EDU001-EL004, NRF2013-EDU001IHL02 and NRF2014-EDU001-IHL05, funded by eduLab, National Research Foundation. This resource may be reproduced for educational and non-commercial purposes only. If you wish to adapt or use this resource, please contact Dr Kenneth Lim: kenneth.lim@nie.edu.sg.

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