



# Ants

## Reference Sheet - Forest Environment

Activity plans available at [zspace.com/edu](https://zspace.com/edu)

Exploring Ants: Introduction

Exploring Ants: Foraging For Food

Exploring Ants: Pheromones

Food Points Accumulated  
20

Ants Foraging  
0

Ants Returning Home

Restart

Exit

Confirm

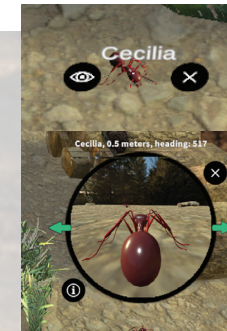
Cancel

Return to Main Menu

Restart

Total Food Accumulated

Return to Main Menu



Tip:  
Select ant to get ant cam. Select info on ant cam to see anatomy.

### FORAGING BEHAVIOR

Students can:

- observe paths taken
- add obstacles.

Teacher tip:

Transparent cubes can be added to better observe behavior.

### COMMUNICATION

Students can:

- see pheromone trails
- add trails

Teacher tips:

Pheromone trails vary in intensity and degrade over time. An ant that encounters another ant will stop briefly to communicate information about food.

100

Pause/Play

Take Screenshot

Return to Main Menu

Exit to Game

Settings

Cube

Branch

Dish

Obstacles

Delete all Ants

Remove Ants

Add Ants

Ants

Delete all Trails

Remove Trail

Add Trail

Trails

Show Ant Returning Home

Show Foraging Ants

Show Ant Trails

Show Ant Direction

Info

Rotate Scene Clockwise

Free Rotation

Rotate Scene Counter Clockwise

View



Tip:  
Obstacles can also be moved.



# Ants

## Reference Sheet - Dining Room Environment

Activity plans available at [zspace.com/edu](https://zspace.com/edu)

Exploring Ants: Introduction  
Exploring Ants: Foraging For Food  
Exploring Ants: Pheromones

Food Points Accumulated

3

Ants Foraging

0

Ants Returning Home

30

Restart

Exit

Confirm

Cancel

Return to Main Menu

Restart

Total Food Accumulated

0

Return to Main Menu

Tip: Ants will randomly stop sometimes to get their bearings.

FOOD GATHERING

Students can:

- collect food points
- add ants

Teacher Tips:

Students have 5 minutes to gather as many food points as possible.

Pause/Play

Take Screenshot

Return to Main Menu

Exit to Game

Cube

Branch

Dish

Delete all Ants

Remove Ants

Add Ants

Delete all Trails

Remove Trail

Add Trail

Show Ant Returning Home

Show Foraging Ants

Show Ant Trails

Show Ant Direction

Rotate Scene Clockwise

Free Rotation

Rotate Scene Counter Clockwise

Delete Scale

Settings

Obstacles

Ants

Trails

Info

View

COMMUNICATION

Students can:

- select specific ants, learn ant anatomy and travel characteristics

Teacher tips:

Foraging ants are females.

Tip: Select ant to get ant cam. Select info on ant cam to see anatomy.

Cecilia

Cecilia, 0.5 meters, heading: 517

Tip: Obstacles can also be moved.

zSpace