Team: _____ Page: _____

Creation of Vacuum

When the vacuum gripper is activated, the vacuum source evacuates air from the space between the gripper's suction cup and the object's surface.

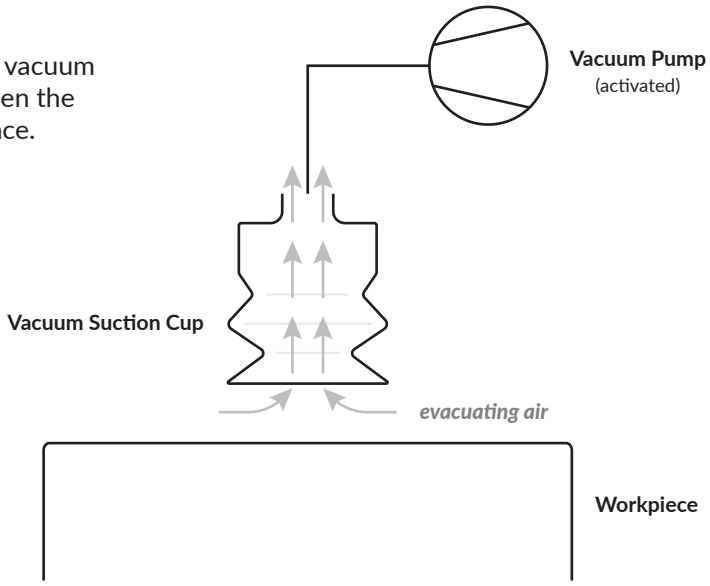

Image 3.1

Pressure Differential

As the air is removed, a vacuum or a region of low pressure is created within the suction cup. The pressure outside the suction cup (atmospheric pressure) is now greater than the pressure inside the cup.

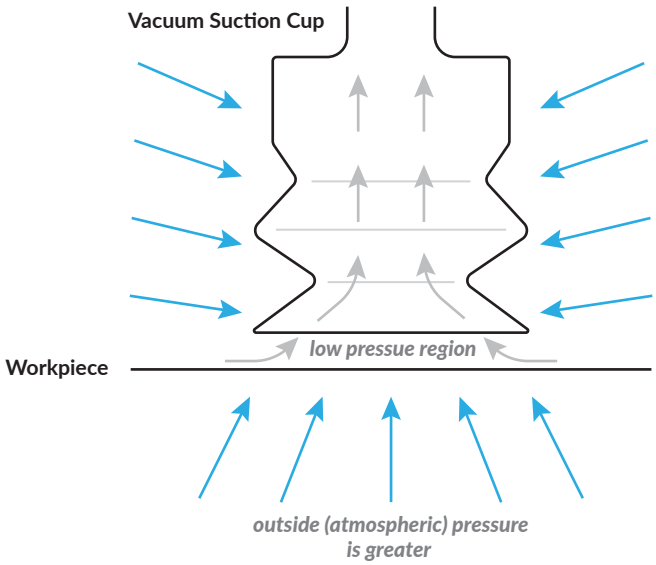

Image 3.2

Resultant Force

This pressure differential generates a force that holds the object to the suction cup. The force is proportional to the pressure difference and the area of the suction cup.

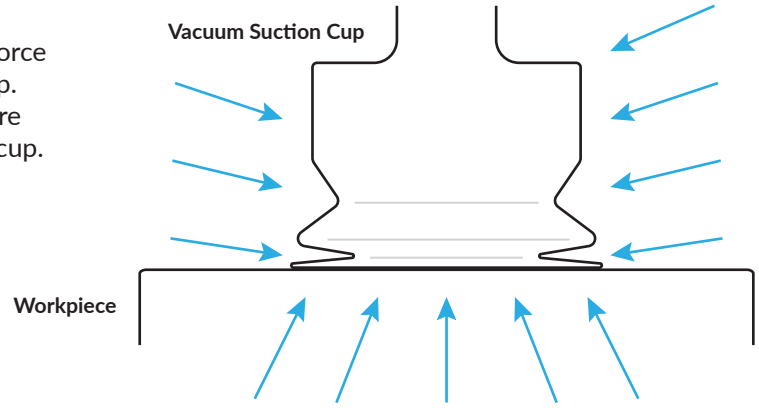

Image 3.3

Team: _____ Page: _____

Practical Scenario - Phase 2

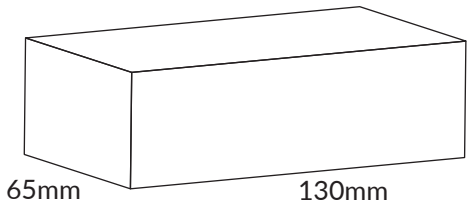

Image 3.4

Practical Scenario - Phase 4

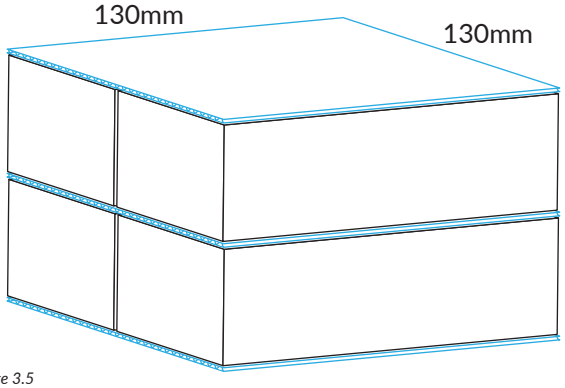

Image 3.5

Practical Scenario - Phase 4

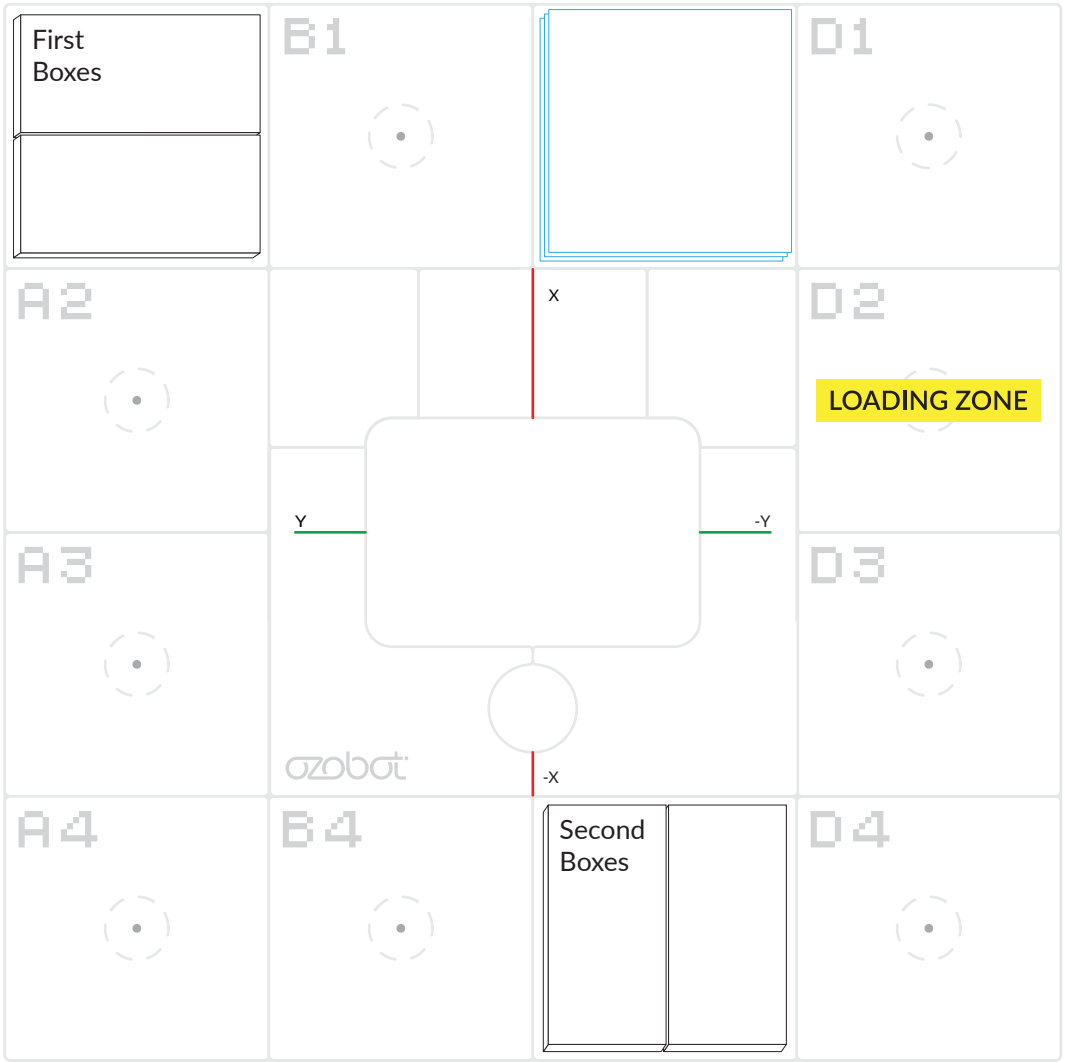

Image 3.6

Team: _____ Page: _____

Members Present:	Members Absent:

Witnessed & Understood by:	Date:	Recorded by:	Date:

Team: _____ Page: _____

Members Present:	Members Absent:

Witnessed & Understood by:	Date:	Recorded by:	Date:

Team: _____ Page: _____

Members Present:	Members Absent:

Witnessed & Understood by:	Date:	Recorded by:	Date:

Team: _____ Page: _____

Members Present:	Members Absent:

Witnessed & Understood by:	Date:	Recorded by:	Date: