



Algodoo

Explore Physics with Algodoo

Presented by-

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What is Algodoo?

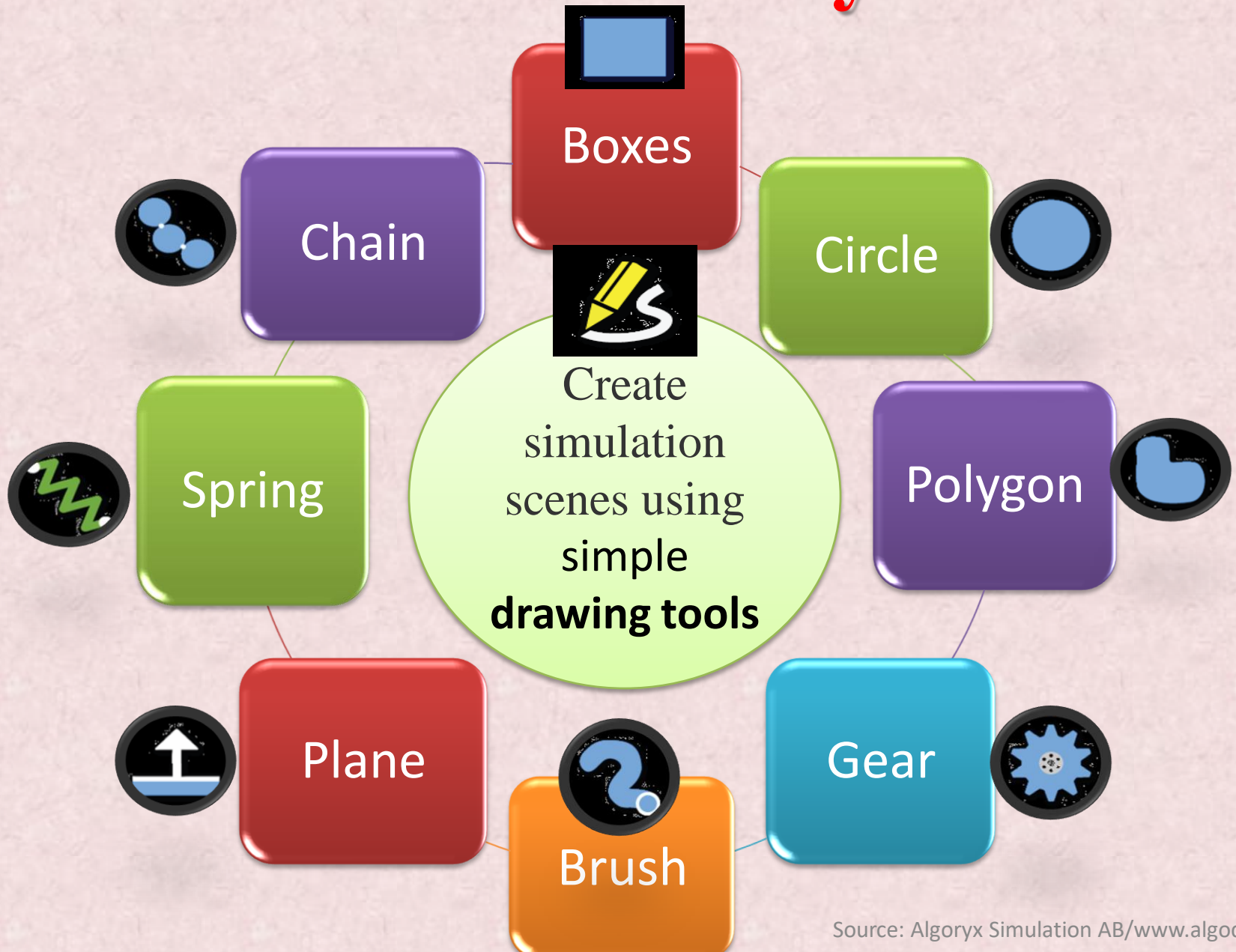
Digital sandbox for creating interactive scenes.

- **User friendly operation.**
- **Visually attractive interface.**
- **Science 2D simulation**
- **Animation tool Engineering tool.**

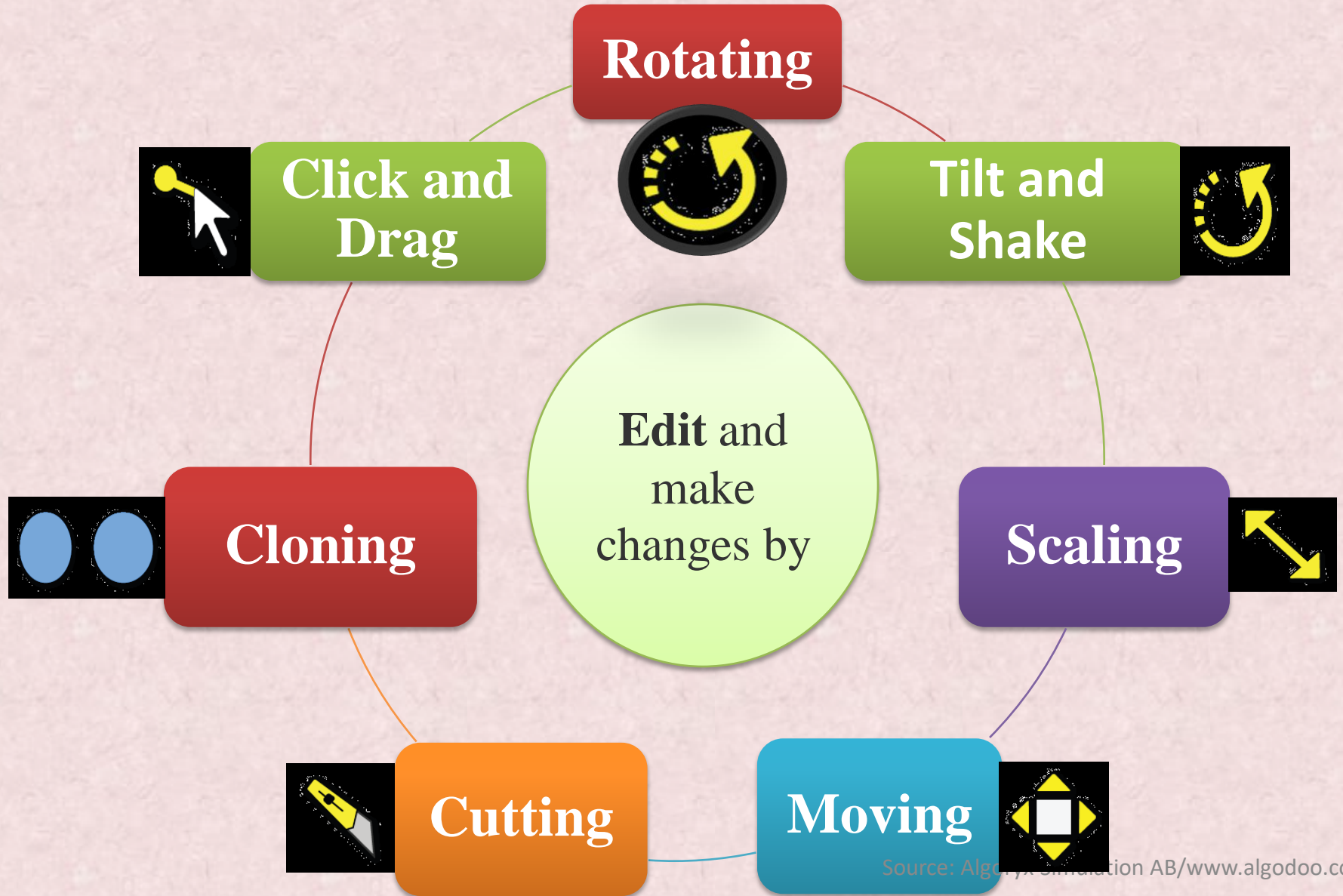
Education with Fun-Algodoo

- Designed in a playful, cartoony manner,
- Explore science with fun.
- Encourages children's own **creativity**,
- Motivation to **construct knowledge**.
- Learn and practice physics at home.
- **Open ended computer game**,

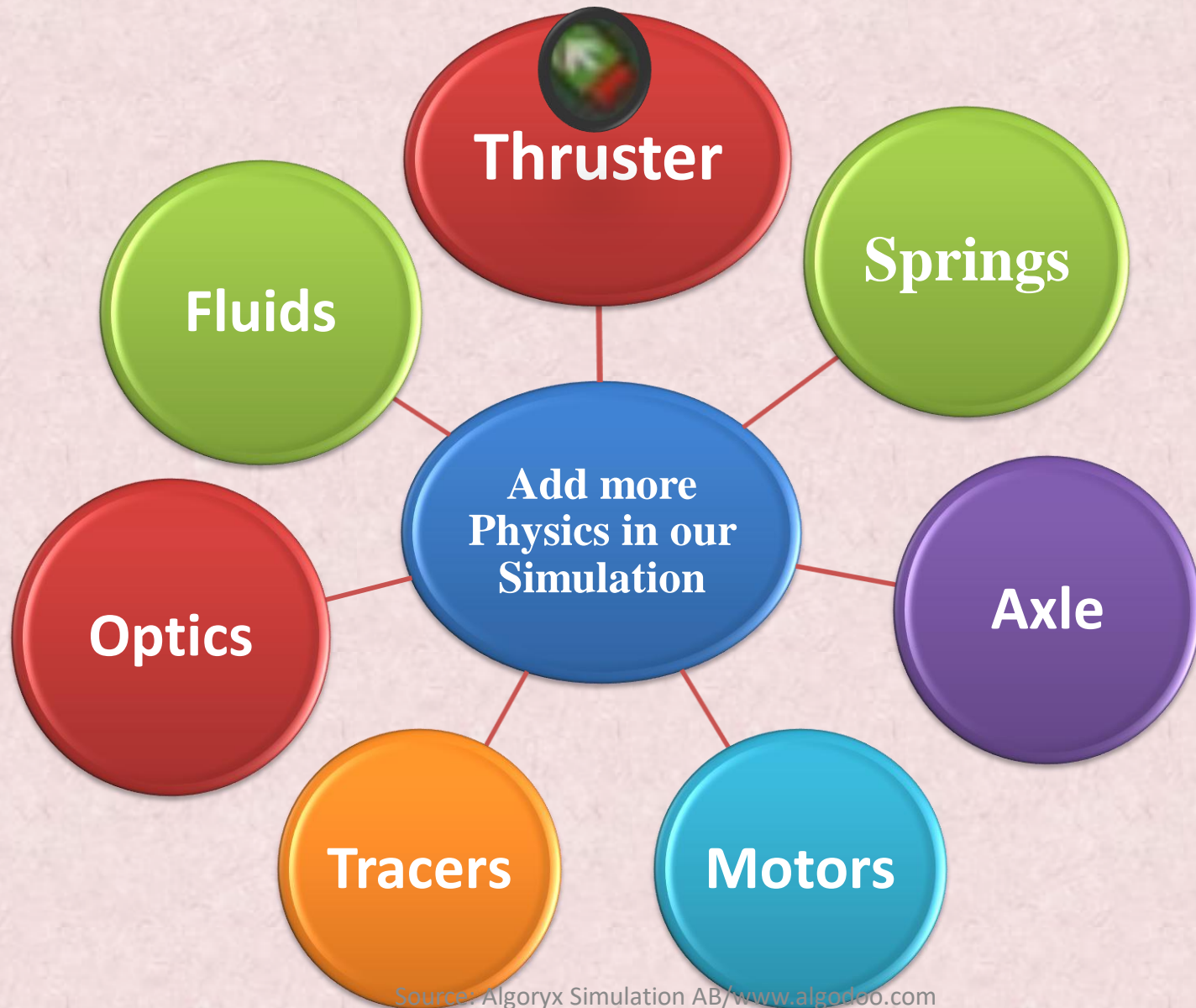
Functionality



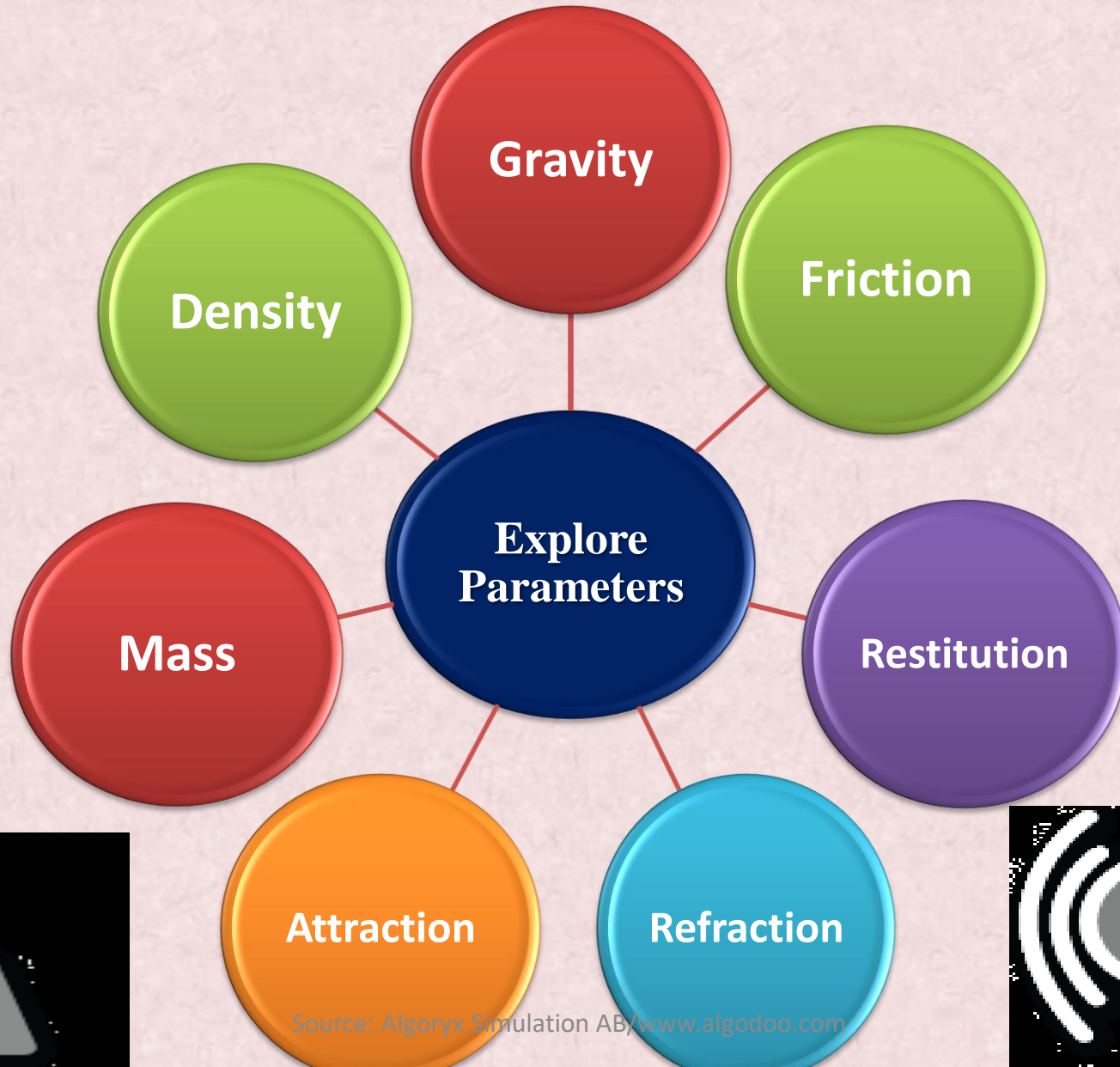
Functionality



Physical Elements



Physical Elements



Technology

- Based on the latest technologies for **interactive simulation,**
- Runs on **Windows and Mac OS.**
- Optimized for the **Intel® powered convertible Classmate PC.**
- Optimized for interactive whiteboard systems like **SMART Board.**

Algobox – Scene Repository

In **Algobox**, (scene library,) you can easily-

- **Save and share** your scenes.
- **Browse and download** scenes.
- **Discuss and share** your thoughts about Algodoo.

How to Download Algodoo?

The screenshot shows a web browser window with the URL `algodoo.com`. The browser's address bar has a red arrow pointing to it. Below the browser, the Algodoo website is displayed. The Algodoo logo is at the top left, with the text "powered by Algoryx" below it. A red arrow points to the "Download" link in the top navigation menu. The main content area features the "Algoryx MOMENTUM" logo on the left and a promotional section on the right. The promotional section has a dark header with the text "Algodoo not enough for your needs?" and a list of features for Algoryx Momentum, each preceded by a green checkmark. An orange "Read more" button is located below the list. At the bottom of the browser window, there are four small circular indicators.

Algodoo

Not secure | `algodoo.com`

Apps Madhya Pradesh... Imported From IE Kahoot! PRIYANKA TYAGI ... State Wise GK Qui... www.educationpo... Kahoot of the wee...

Algodoo powered by Algoryx

Download What is it? Learn it Algobox Forum

Algoryx[®]

MOMENTUM

Algodoo not enough for your needs?

Check out Algoryx Momentum with features such as:

- ✓ Simulates complex multibody mechanics in real-time
- ✓ Automatically locates potential joints in the model
- ✓ Brings virtual prototypes to life
- ✓ Import your own 3d models

Read more

Source: Algoryx Simulation AB/www.algodoo.com

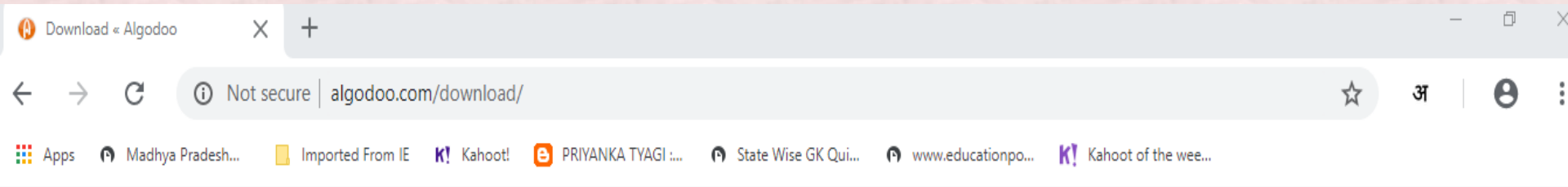
Algodoo is now FREE!

Algodoo gives you the opportunity to play with physics. Use your own hands and simple drawing tools to *design, construct* and *explore* the world of physics.



“It’s so simple to use. You can make anything, and I mean anything, and make it do whatever you want it to.”

How to Download Algodoo?



Download for Mac

Support the development of **Algodoo** for the **Mac** and buy your copy from the Mac App Store.



Download for iPad

Support the development of **Algodoo** for the **iPad** and buy your copy from the App Store.



Free downloads



Download and double-click to start the installer, then follow the instructions. Important: if Algodoo runs slowly, please make sure you update your graphics drivers!

[Download for Windows](#)



Download and double-click to mount, then open the mounted image on your desktop and copy the Algodoo application to your Applications directory.

[Download for Mac](#)

Source: Algoryx Simulation AB/www.algodoo.com



Main Window

The image shows the main window of Algodoo for Education. The interface includes a top menu bar, a left sidebar with a browser and toolbar, a central workspace, and a right sidebar with properties. A 'Welcome!' dialog box is open in the center, offering 'Setup', 'Tutorials', and 'Lessons' options. Hand-drawn arrows point from text labels to various UI elements.

File **Algodoo for Education**

TOP MENU
Change language, Toggle fullscreen, Open options, Hide windows, Run tutorials and much more.

BROWSER
Browse & Save scenes.
Find & Share scenes online.
Drag & Drop components.

TOOLBAR
Tools for Drawing, Editing and Interact with your scenes.

TOOL OPTIONS
Options for the selected tool.

ENVIRONMENT
Turn on/off Gravity, Air friction and Background grid.

PROPERTIES
Set material and color.

RIGHT-CLICK (or DOUBLE-CLICK)
Make water, Clone, Show info, Add mechanics, etc.

Simulation Control
Play, pause, undo and redo.

Welcome!
Hello, and welcome to Algodoo!

Setup
Set language and the Algodoo look and feel

Tutorials
Learn the basics of Algodoo in a minute

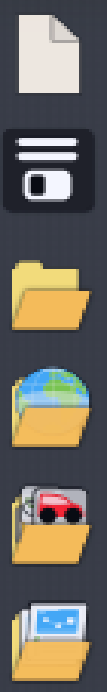
Lessons
Use Algodoo as a teaching aid







Do not show this message again

Select by encoding
? Sketch


Source: Algoryx Simulation AB/www.algodoo.com

Tool Bar

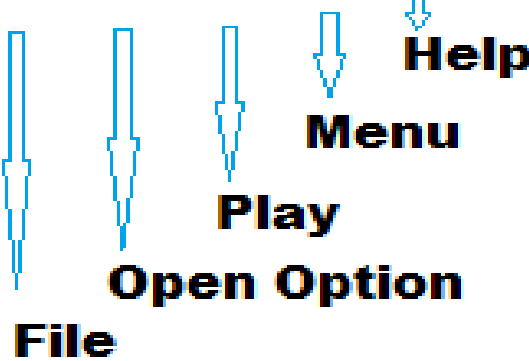


-  **New Scene**
-  **Save and Share**
-  **My Scene**
-  **Algobox**
-  **Component**
-  **Lesson**

Browser



File ⚙ ▶ 📁 ? Algodoo v2.1.0



File
Open Option
Play
Menu
Help

Top Menu

Tool Bar

Sketch (K)
Move Tool (M)
Rotate
Brush (B)
Polygon (P)
Box (X)
Plane Tool (A)
Spring Tool (S)
Axle Tool (H)
Laser Pen (L)
Texture Tool (U)



Tool Bar

Knife (T)
Drag
Scale (R)
Eraser
Gear Tool (G)
Circle Tool (C)
Chain Tool (N)
Fixate (F)
Thruster (O)
Tracer (E)

Select by encircling

? Polygon

Tool Option



⇒ Material



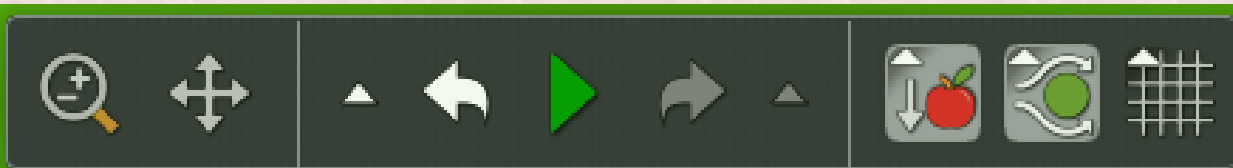
⇒ Appearance



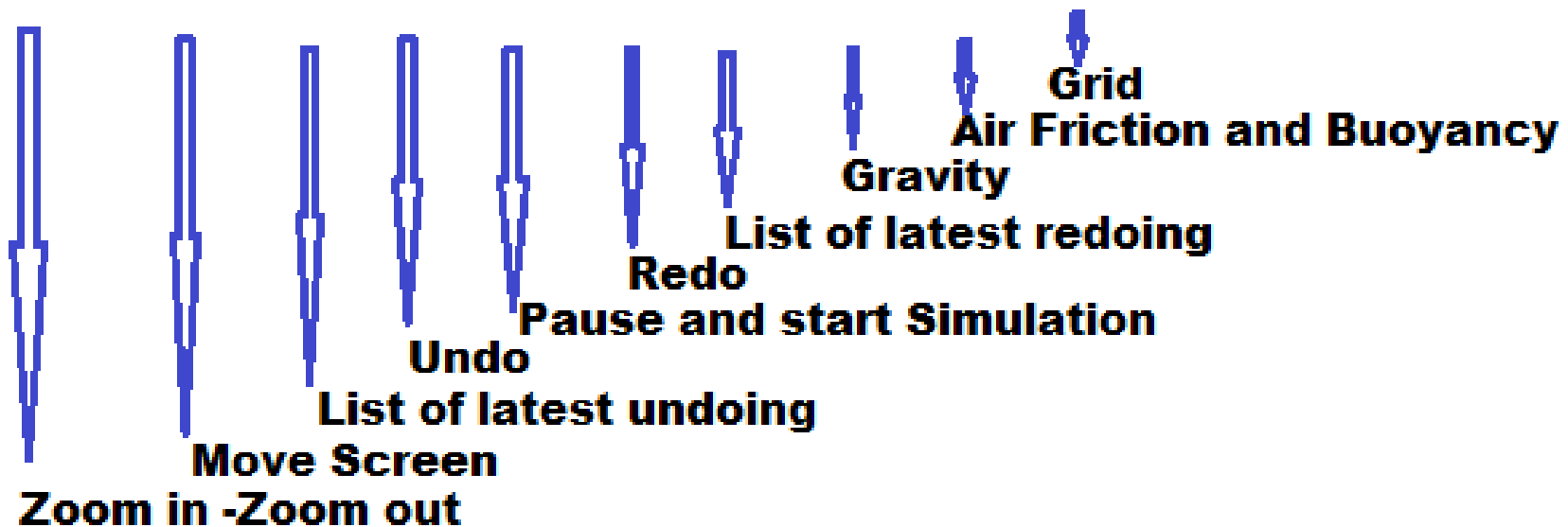
⇒ Visualization

Properties

Tool Bar

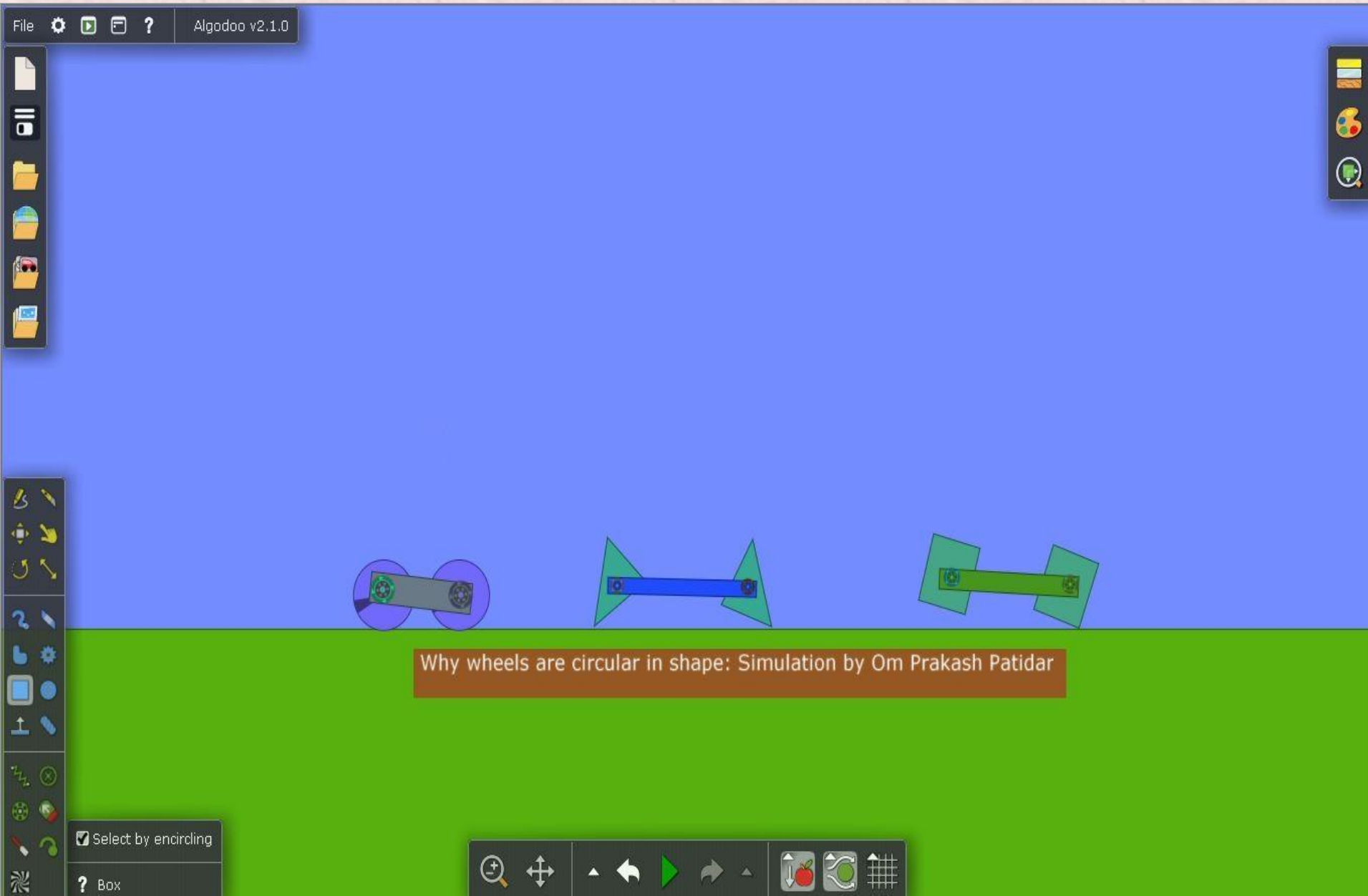


Environment

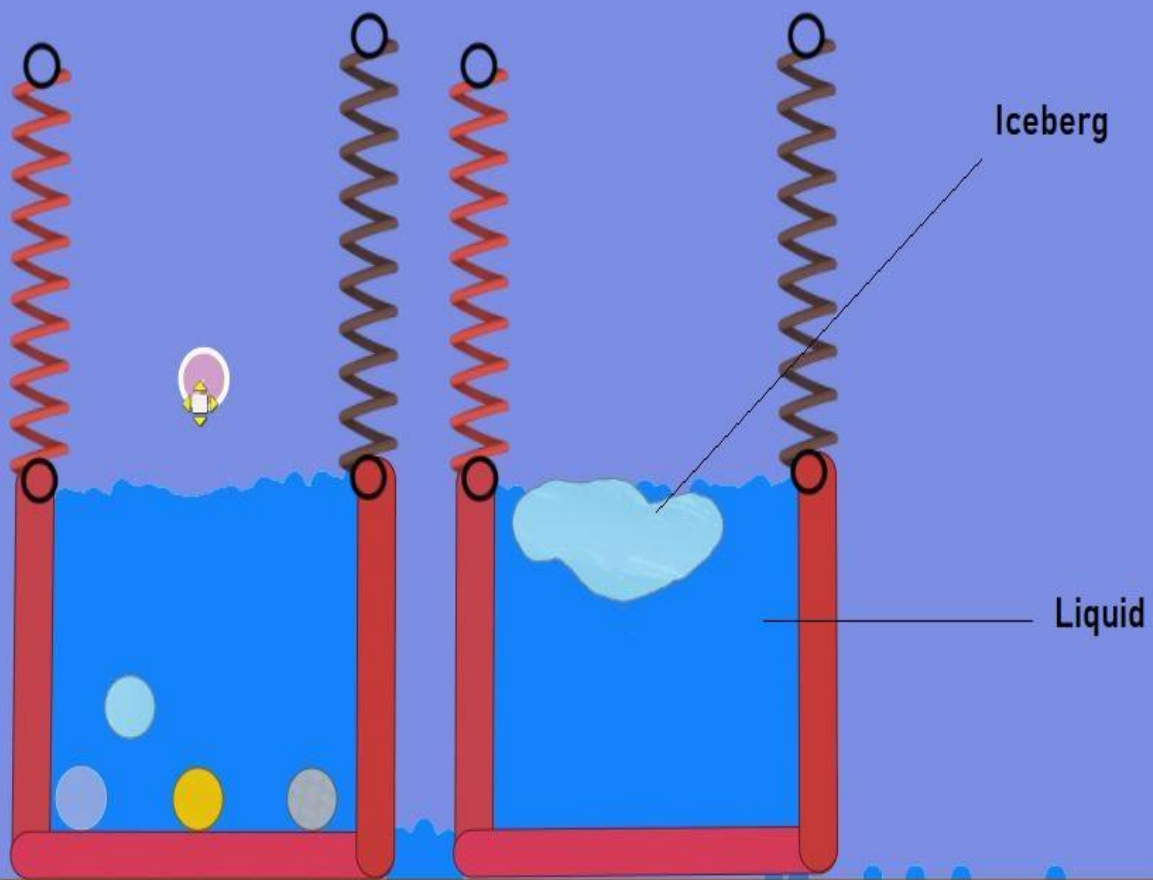


Simulation Control

Why Wheels are Circular in Shape?

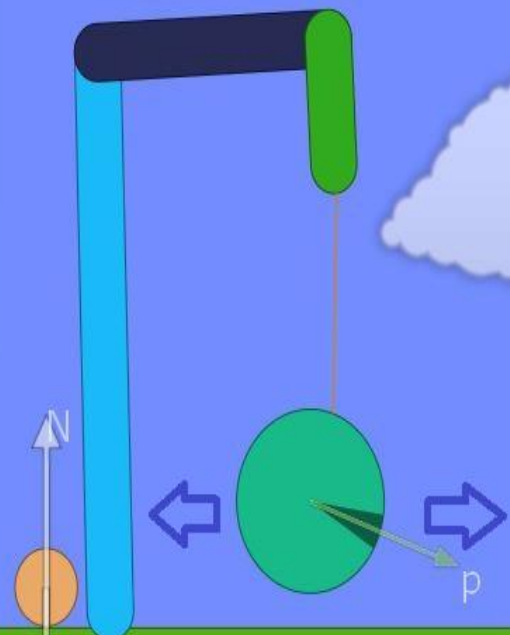
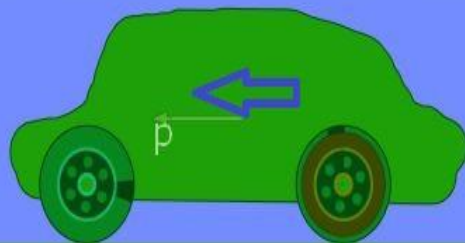
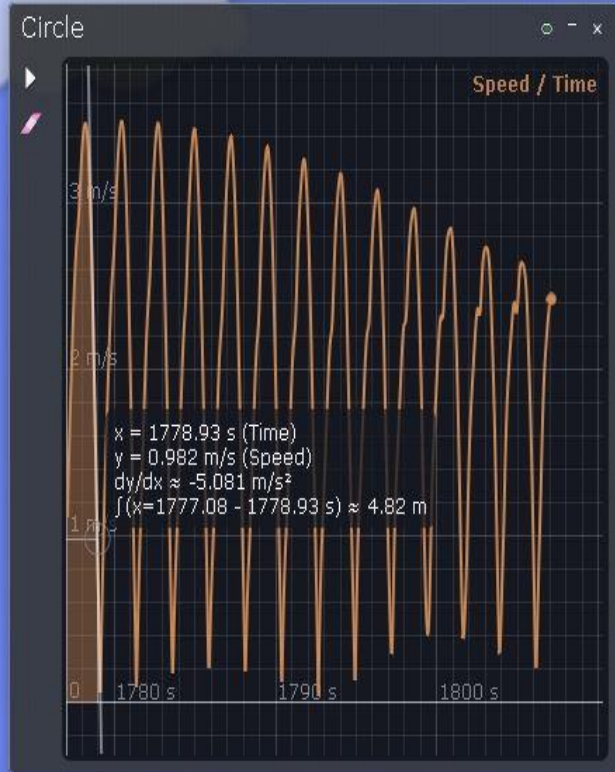


Float and Sink



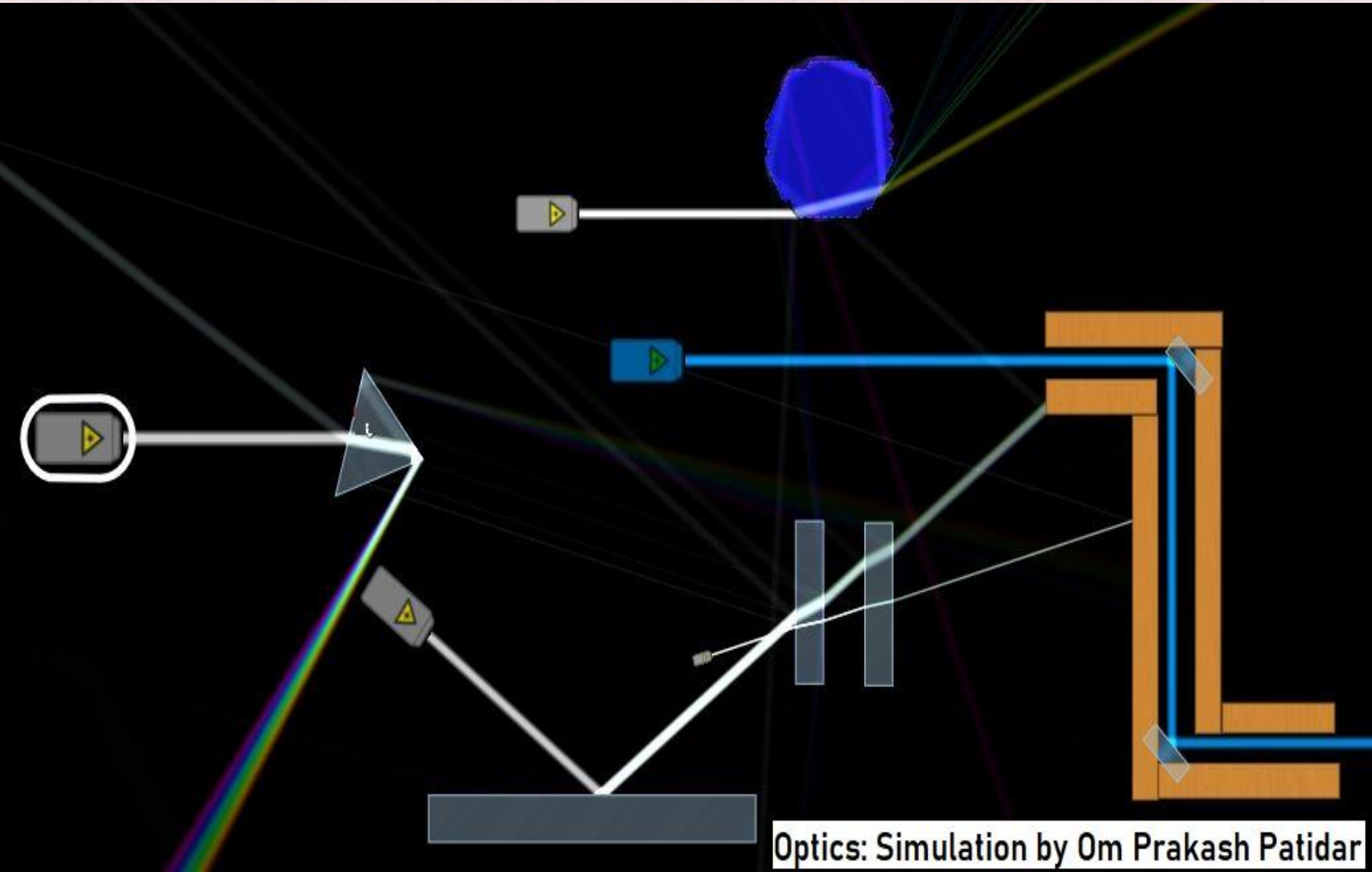
Motion

File [Icons] Algodoo v2.1.0






Motion : Simulation by Om Prakash Patidar

Optics: Reflection and refraction



Friction of a Sliding Surface

File    ? Algodoo v2.1.0

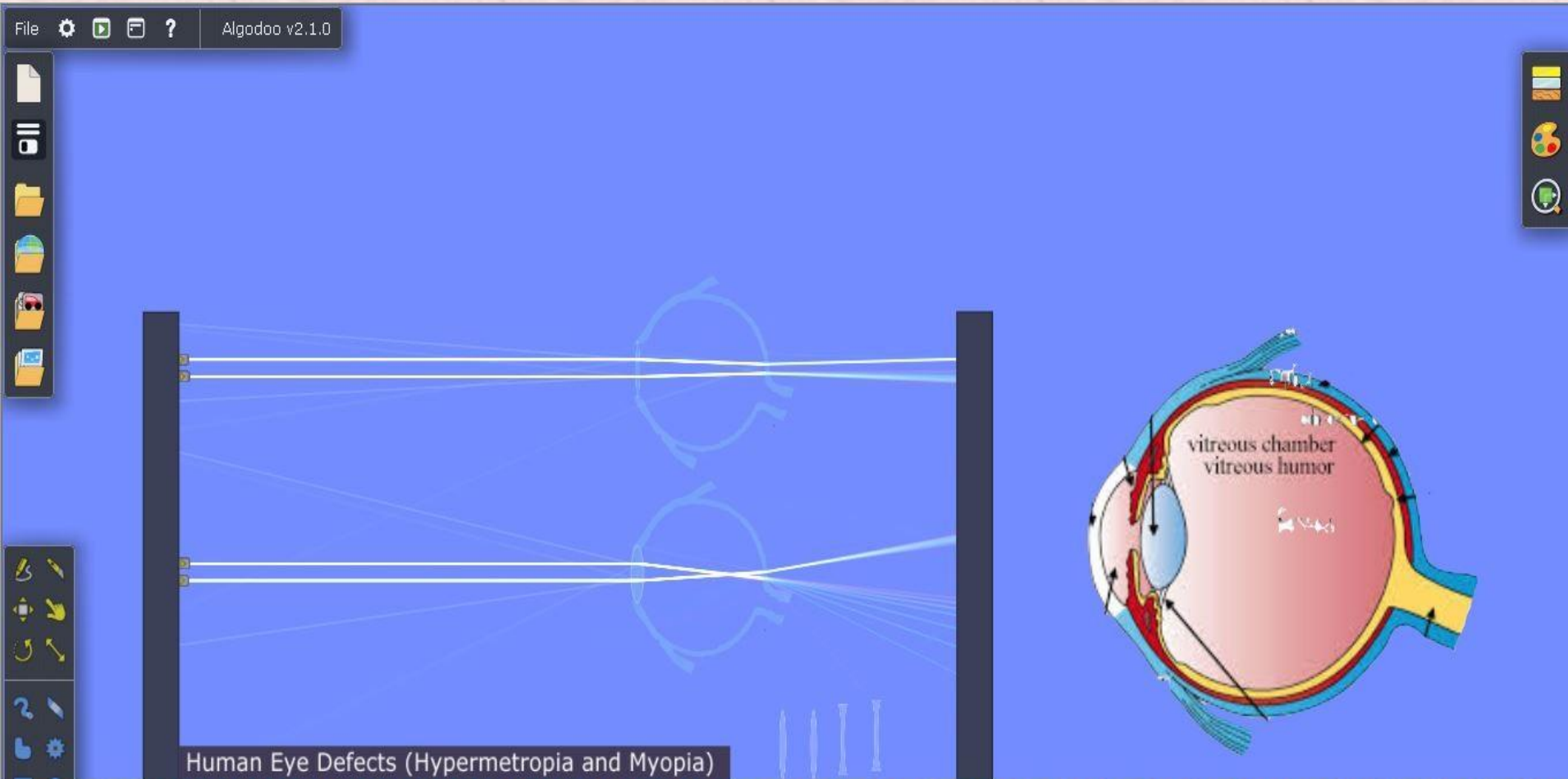


Friction of sliding surface : Simulation by Om Prakash Patidar

? Move



Human Eye and its Defects



Human Eye Defects (Hypermetropia and Myopia)

Simulation by Om Prakash Patidar



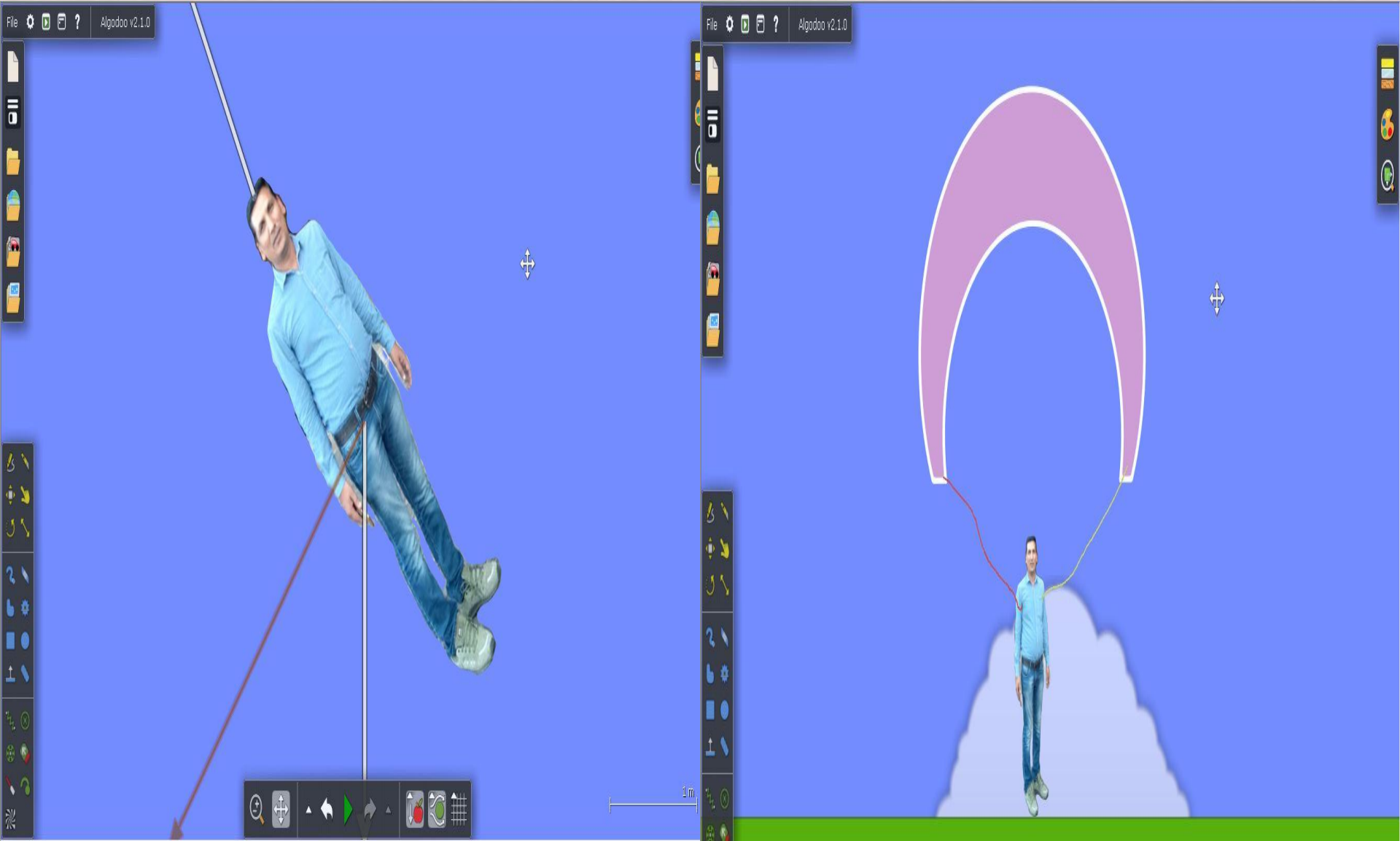
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Gears, Chains, Ropes and Pulleys

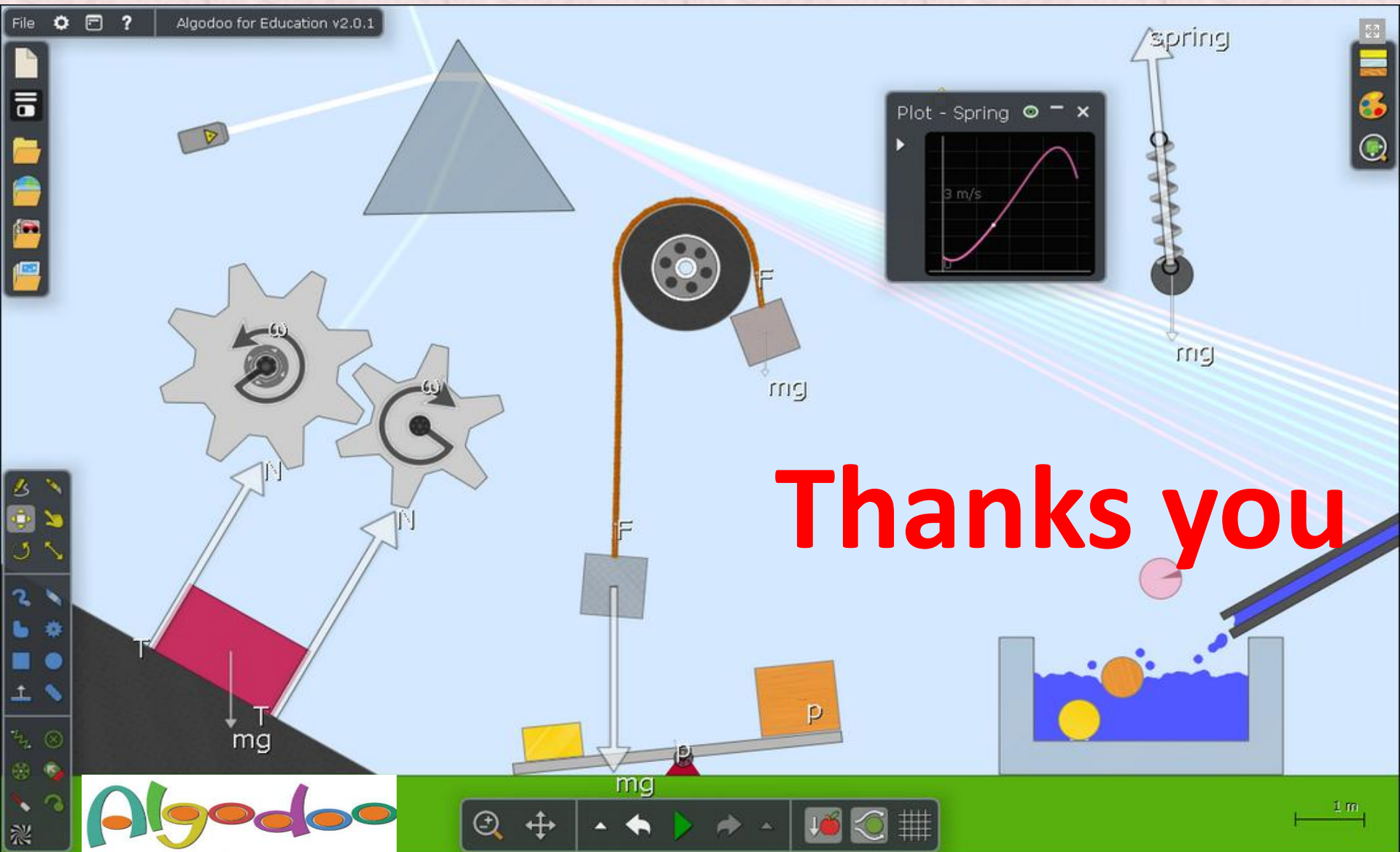


Gear,Chain,Rope and Pulleys : Simulation by Om Prakash Patidar

Centre of Gravity-Parachuting



be creative with Algodoo...



Thanks you