

Physics of Toys Daily Supply List

The curriculum supply list is written for 25 students, with group activities based on 5 students in a group.

General supplies needed on a daily basis:

25 pairs of scissors
25 sharpened pencils
25 glue sticks
5-10 colored markers
1 stapler
1 box of extra staples
25 journals with at least 10 pages
(these can be teacher made or student made)

Copies Needed

25 You Be Galileo activity sheets (Day 1)
25 Calculate your weight on Another Planet sheets (Day 1)
25 Friction Action sheets (Day 3)
25 Car Race observation sheets (Day 4)
25 Spinning Tops Observation sheets (Day 6)
25 Come Back Can Instruction sheets (Day 8)
25 Spool Racer Instruction sheets (Day 8)

Day 1:

25 "You Be Galileo" activity sheets
25 Calculate your weight on Another Planet sheets
25 small objects that do not bounce (see partial list below)
2 objects of different weights
5 empty film canisters
5 film canisters filled with weights
5 calculators

Objects that do not bounce: balloons, cotton balls, feathers, paper clips, paper plates, pens, pieces of felt or other material, rubber bands.

Day 2:

6 pieces of white chart paper
1 roll of masking tape
1 meter-stick

5 rulers
5 super balls
5 rubber baseballs
5 Ping-Pong balls
5 Nerf balls
5 golf balls
5 tennis balls
5 marbles
5 markers in different colors
Colored sticker dots corresponding to marker colors
1 box chalk

Day 3

25 copies of Friction Action
5 small boxes (i.e. shoe boxes)
5 equal sets of rocks or other heavy items to put in the boxes
5 craft sticks
5 large rubber bands
25 pencils
5 rulers
5 rolls of masking tape
5 soup cans
15 marbles
1 can play dough
5 lids that fit over soup cans
1 coffee can
5 tops
5 trays
Pieces of different surfaces such as carpet, fabric, sand, wax paper etc.
50 5x 5 pieces of waxed paper
50 5x5 pieces of coarse sandpaper
1 large bottle of baby oil
Optional: shoes with a variety of soles, such as ballet shoes, golf shoes, football shoes, boots and dress shoes.

Day 4

25 copies of Car Race observation sheets
A car, ball or top for each student
5 ramps
5 smooth surfaces

5 carpet strips
5 felt strips
5 sandpaper strips
5 Matchbox cars
5 yardsticks
10 books (approximately) to crash the cars into and to use as ramp supports
1 can of play dough

Day 5

100 cotton balls
5 rolls of masking tape
25 paint stirrers
100 large rubber bands
25 film canisters
25 pencils
5 plastic Slinkys of assorted sizes
5 metal Slinkys of assorted sizes
5 ramps
10 books to change the height of the ramp
5 rulers
5 protractors
10 pieces of string 24 long

Day 6 **Need Electricity for glue guns**

25 copies of Spinning Tops Observation Sheet
5-10 tops of various size & shape
25 2 x dowels
25 pairs of scissors
25 3-inch squares of paperboard cut from cereal boxes
150 pennies
150 small paperclips
5 glue guns
1 bag of glue gun sticks
5 stopwatches
5 compasses for drawing circles
5 protractors

Day 7

250 dominoes (or more)
5 marbles

Various lengths of tubing for each group
5 rolls of masking tape
5 stopwatches
25 pieces of construction paper
25 pairs of scissors

Day 8

25 copies of Come Back Can Instructions
25 copies of Spool Racer Instructions
25 spools
50 rubber bands (3-4 long)
75 toothpicks
25 unsharpened pencils
25 small metal washers
25 large metal washers
5 rolls of masking tape
25 plastic jars with lids (with one hole predrilled in each end)
25 pairs of scissors
25 twist ties
25 bolts & 50 nuts

Day 9

5 10-foot lengths of string
50 long balloons
100 straws
5 rolls of masking tape
50 paperclips
25 small milk cartons
25 pieces of paper board (from cereal boxes)
25 pencils
25 pairs of scissors

Day 10

Bernoulli Blower or hand held dryer
5-6 various balls
10 ping-pong or small Styrofoam balls
5 funnels
25 alcohol wipes
10 ring stands or other supports

5 index cards
5 large wooden spools
5 straight pins
1 roll of lightweight string
5 rolls of masking tape