

# Forces Causing Movement

Grade 3 Understanding Matter and Energy  
Meets Ontario Curriculum Outcomes



**SHOP MY TPT STORE TO GET MY FULL UNIT COMPLETE WITH:**

- LESSON PLANS
  - POSTERS
- POWERPOINT SLIDES (REAL LIFE PHOTOS)
- DATA TRACKING/ REPORT CARD COMMENTS
  - WORKSHEETS
  - ACTIVITIES
  - TASK CARDS
- DISCUSSION QUESTIONS

**ALIGNED TO THE ONTARIO CURRICULUM**



# FORCES CAUSING MOVEMENT

## GRADE 3: UNDERSTANDING MATTER & ENERGY

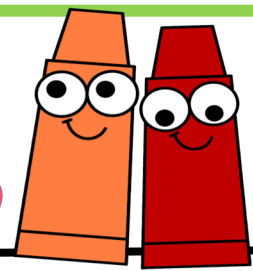
### ONTARIO CURRICULUM



1.1	Assess the effects of the actions of forces in nature (natural phenomena) on the natural and built environment, and identify ways in which human activities can reduce or enhance this impact
1.2	Assess the impact of safety devices that minimize the effects of forces in various human activities
2.1	Follow established safety procedures during science and technology investigations (e.g. use eye protection when twisting, bending, compressing, or stretching materials)
2.2	Investigate forces that cause an object to start moving, stop moving, or change direction (e.g. release a wound-up elastic band to propel a toy vehicle; pull on a leash to stop a dog; hit a ball with a bat; hold papers on a refrigerator door using magnets)
2.3	Conduct investigations to determine the effects of increasing or decreasing the amount of force applied to an object (e.g. using two magnets instead of one to pick-up pins; changing the number of people on one side of a tug of war, rubbing a balloon ten times instead of five times on a wool sweater to create a static charge)
2.4	Use technological problem-solving skills, and knowledge acquired from previous investigations, to design and build devices that use forces to create controlled movement (e.g. an airplane propelled by and or by an elastic band; a boat that holds paper clips and moves through water using magnets; a crane that lifts a load; a timed marble run)
2.5	Use appropriate science and technology vocabulary, including push, pull, load, distance, and speed, in oral and written communication
2.6	Use a variety of forms (e.g., oral, written, graphic, multimedia) to communicate with different audiences and for a variety of purposes (e.g., give a demonstration to show how a device was constructed and how it performs; use a drawing to illustrate the design alterations needed to improve a device; describe with pictures and/or in writing the steps required to build a device)
3.1	Identify a force as a push or a pull that causes an object to move
3.2	Identify different kinds of forces (e.g., gravity – the force that pulls objects towards the earth; electrostatic force – the push or pull that happens with charged objects; magnetic force – the force of a magnet that attracts objects containing iron or nickel)
3.3	Describe how different forces (e.g., magnetism, muscular force, gravitational force, friction) applied to an object at rest can cause the object to start, stop, attract, repel or change direction
3.4	Explain how forces are exerted through direct contact (e.g., pushing a door, pulling a toy) or through interaction at a distance (e.g., magnetism, gravity)
3.5	Identify ways in which forces are used in their daily lives (e.g., magnetism – fridge magnet; gravity – a falling ball; friction – bicycle brakes)



# STOP and smell the crayons



# Terms of Use

Thank you for your purchase! \*Please remember to leave feedback to earn Tpt credits, which can be used towards future purchases. Follow me on Tpt to be notified when new products are added 😊 Follow me on the below social media links for special announcements and sales! - Laura

## You May

- Use this item for personal/student use in a single classroom
- Purchase licenses at a big discount for others to use this resource.
- Enjoy this resource for years to come (check back for updated versions)

## You May Not

- Give this item to your friend or colleagues
- Copy this item for use by others
- Post this item on a website for download. This includes personal websites, district websites etc.
- Post this item or any like copy for sale or for free.

©Laura Merritt – Stop and Smell the Crayons

All rights reserved by author. This product is to be used by the original downloader only. Copying for more than one teacher, classroom, department, school, or school system is prohibited. This product may not be distributed or displayed digitally for public view. Failure to comply is a copyright infringement and a violation of the Digital Millennium Copyright Act (DMCA). Clipart and elements found in this PDF are copyrighted and cannot be extracted and used outside of this file without permission or license. Intended for classroom and personal use ONLY. See product file for clip-art and font credits.

## LET'S CONNECT



## FONTS & CLIPART

