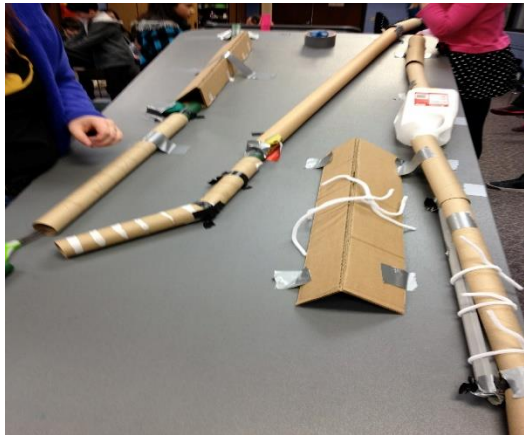


MARBLE RUN/CAR TRACK



1. Explore force, friction and gravity using toy cars, marbles or balls.
2. Make a ramp using cardboard, wood, a tea tray or any other flat surface you can find. Experiment rolling cars, marbles or balls down the ramp whilst it is at different angles.
3. What difference does it make to the speed and distance the car travels when the ramp is held at a steep angle and a shallow angle? Does it make a difference if you use a big or heavy car instead of a small, lightweight car?
4. Your child might like to record how far the object goes each time using a marker or have races with someone else in your household.
5. Explore what happens when you change the surface of the ramp. Try covering the ramp in different materials like a scarf, sandpaper or maybe some tinfoil. This activity works best with cars or any other wheeled toy! Does this change how quickly or slowly the cars travel down the ramp? Use different materials but keep the ramp at the same height to make it a fair experiment. Which material made the cars travel slowly and which made them travel fast? Why do you think this is?

TEDDY OBSTACLE COURSE



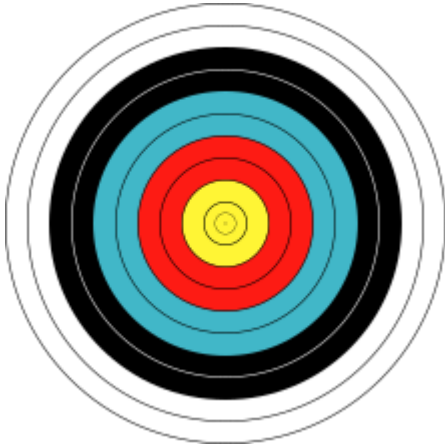
Make an obstacle course for your teddy using a variety of objects. This could be in your house or out in the garden. Talk your teddy through the course. Tell it which direction to move in - up, down, left, right, over, under etc.

SKITTLES



Recycle tin cans or bottles and make a game of Skittles. Paint them in bright colours. Have fun playing a game with your family!

BEANBAG BULLSEYE



Draw one little circle with chalk, then 3 more circles around the edge, getting bigger every time until you have your very own target on the floor. Write 50 in the smallest circle, 25 in the next one out, 10 and then 5, then throw a beanbag and see where you land! If you don't have a beanbag, you could fill socks with beans or rice and tie them. How many points can you score with 3 beanbags?

SLIME



Make slime using the link below. What can you make with it? <https://youtu.be/k1iuo1im1rU>

JUNK MODELLING

Try making a toy using junk such as egg cartons, cereal boxes, bottles etc. Use masking tape, cellotape and string to fix them together. Think about the properties of the various materials and which materials would be best.

Remember our experiments in class to see which materials float and which sink! Finally, paint/colour them brightly.

Here are some suggestions of what you could make:



EGG CARTON TRAIN



You could try making a track and seeing how fast it goes with/without passengers!

Or make a pirate ship:



Try seeing if it will float in your bath/paddling pool.