

What's in my tray?

Rolling, rolling,  
rolling

# What's in my tray?

## Rolling, rolling, rolling - instructions

Investigate forces using a comparative test. Take pictures or video to capture your work.

- Fill each pair of coloured eggs with the following items and close securely:
  - Orange eggs - three chicks each
  - Green eggs - one chocolate egg each
  - Pink eggs - eight mini eggs each
  - Blue eggs - empty
- Take it in turns to hold a pink egg at the top of either channel and release it.
- **Q1.** What happened to the egg? **Q2.** Why? Write the answers on your answer sheet.
- Cover the bottom surface of one of the channels with bubble wrap. Tip: Use blue tack and fold the bubble wrap under each end of the channel to secure it in place.
- Hold one pink egg at the top of one guttering channel and one pink egg at the top of the second guttering channel. Make a prediction - what will happen when you release the eggs?
- Release the eggs simultaneously. Observe what happens and repeat this test 3 times.
- **Q3.** What happened? **Q4.** Why? Write the answers on your answer sheet.
- Answer **Q5** and **Q6**, which can be found on your answer sheet.

**Tidy up time:** Empty the eggs back into the 4 section tray insert and replace the lid. Remove the bubble wrap and blue tack you added and put it back in the extra deep tray. Leave the channels set up in parallel. Replace the instructions and leave everything tidy.



## What's In My Tray?

Answer sheet

Team Name \_\_\_\_\_

Completed by participating team

Completed by marking team

**Rolling, rolling, rolling** (12 points available, 2 per question)

Q1. What happened to the pink egg? \_\_\_\_\_

\_\_\_\_\_

Q2. Why? \_\_\_\_\_

\_\_\_\_\_

Q3. What happened? \_\_\_\_\_

\_\_\_\_\_

Q4. Why? \_\_\_\_\_

\_\_\_\_\_

Q5. Why must each pair of eggs be filled with exactly the same number and type of items?

\_\_\_\_\_

\_\_\_\_\_

Q6. Suggest two other investigations or expansions to the activity you could carry out with the equipment provided

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Points awarded = \_\_\_\_\_