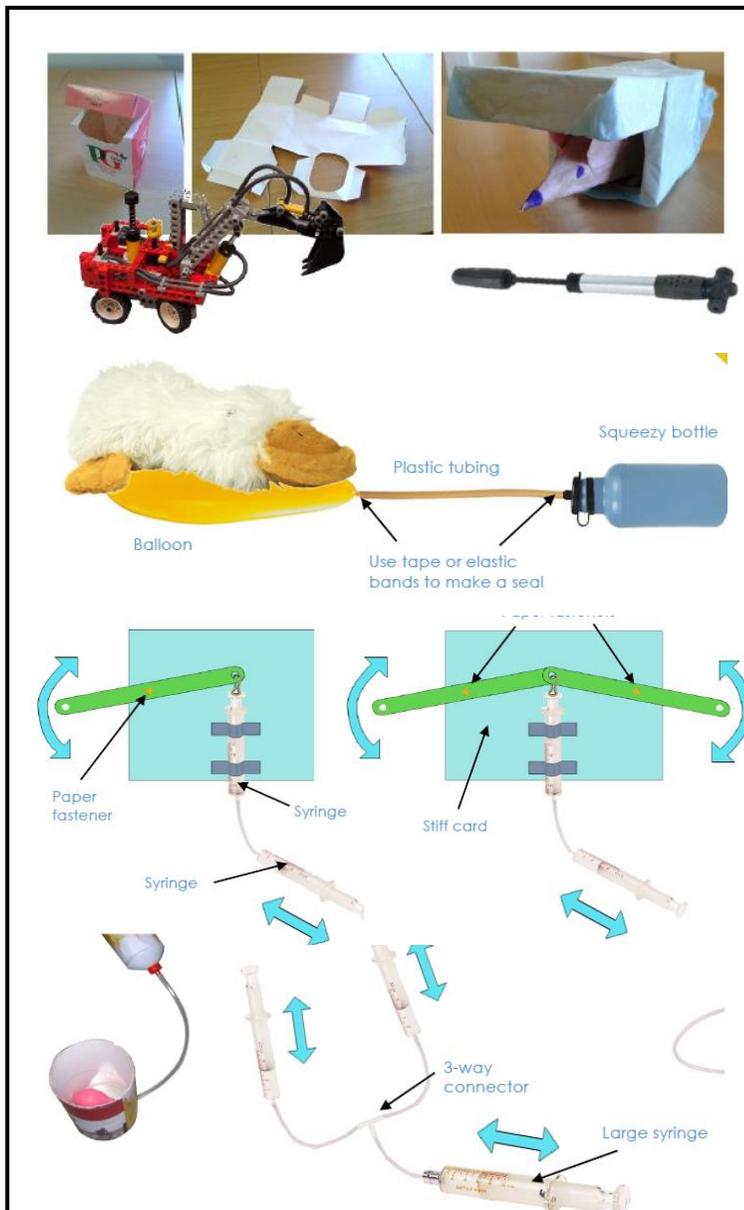


# Key Vocabulary

| Key Word         | Definition  |
|------------------|---|
| Components       | A part, or element, of a larger whole, especially a part of a machine or vehicle.                               |
| Tubing           | A length, or lengths, of metal, plastic, glass, etc., in tubular form.  |
| Syringe          | A tube with a nozzle and plunger for sucking and blowing air or liquids.  |
| Plunger          | A device, or mechanism, that works with a plunging or thrusting movement.                                       |
| Pneumatic system | Pneumatic systems are systems that use compressed air (squeezed air) to make things move.                       |
| Input movement   | Input - what goes into a system.<br>The 'input movement' is where the user pushes or pulls a syringe or pump.   |
| Output movement  | Output - what comes out of a system.<br>The 'output movement' is where the object at the end of the tube moves. |
| Compression      | Compressed - something that is squashed, such as air in a tube.   |
| Inflate          | To let gas/air in - 'gets bigger'.  |
| Deflate          | To let gas / air out - 'gets smaller'.  |

# Spring Term Pneumatics (Cycle B)



# Learning Sequence

- 1 Explore pneumatic mechanisms in the real world.
- 2 Select tools, materials and kits to create pneumatic mechanisms.
- 3 Explain how components of my design work.
- 4 Cut, mark and measure materials accurately.
- 5 Assemble, join and combine materials accurately to make a pneumatic mechanism.
- 6 Evaluate my product against my design independently.