



FCHGO EPDM TRIALS

TOY WORK SHEET

FCHgo EPDM Team, October – December 2019

TOY CHOSEN:

PUPIL/GROUP:

HOW IS IT MADE?

Draw the components of the toy and how they fit together. Then build the toy.



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HOW DOES IT WORK?

Draw the toy and add graphic symbols (arrows, lines, connectors, ...) to represent how it works dynamically. How does it work? How can you make it work in different ways? Write some notes with the results of different attempts. What can you do to make it work in the “best” or most efficient way?



DESCRIBE HOW THE TOY WORKS – THE STORY OF ENERGY

In this activity, you are going to tell how the toy works and what is the role of energy in its operations (the “story of the energy”).

Here is a list of energy carriers:

- Hot water
- Compressed water
- Water in motion
- Hot air
- Compressed air
- Air in motion
- Heat
- Food
- Fuel
- Hydrogen
- Electricity
- Light
- Motion
- Rotation
- Weight

Chose the suitable carriers and put them in sequence corresponding to how the toy works. Name the couplers/exchangers, i.e. the “meeting places” where energy is exchanged between the carriers (where the first carrier “gives” energy to the second carrier). Tell the story of how the energy carriers interact and behave in the toy. Think about how ghosts represented the energy carriers in the story of *Perpetuum Mobile*.



PROCESS DIAGRAM (ENERGY DIAGRAM)

Draw the process diagram, showing the carriers and the couplers/exchangers, and indicate power and energy currents.