



SHIP



CAR



PLANE



TRAIN



TRAIN

LORRY



LORRY



LORRY



LORRY



LORRY



TREATED WATER



TREATED WATER



TREATED WATER



TREATED WATER



TREATED WATER



www.ellenmacarthurfoundation.org

FOREST



CONSUMER



www.ellenmacarthurfoundation.org

SHOP



www.ellenmacarthurfoundation.org

WAREHOUSE



www.ellenmacarthurfoundation.org

WAREHOUSE



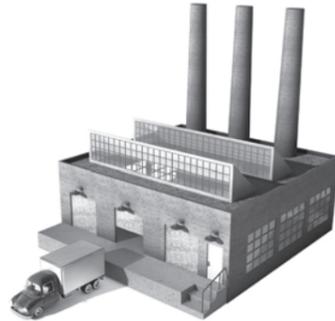
www.ellenmacarthurfoundation.org

www.ellenmacarthurfoundation.org

MINE



FACTORY



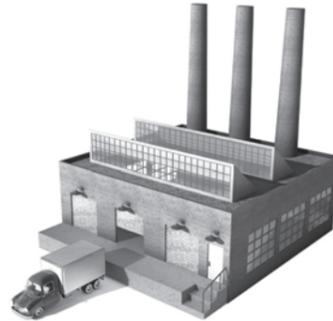
www.ellenmacarthurfoundation.org

FACTORY



www.ellenmacarthurfoundation.org

FACTORY



www.ellenmacarthurfoundation.org

FACTORY



www.ellenmacarthurfoundation.org

www.ellenmacarthurfoundation.org

www.ellenmacarthurfoundation.org

www.ellenmacarthurfoundation.org

www.ellenmacarthurfoundation.org

www.ellenmacarthurfoundation.org

POWER STATION



POWER STATION



POWER STATION



POWER STATION



OIL RIG





TOADSTOOL



SOIL



SUN

CATERPILLAR

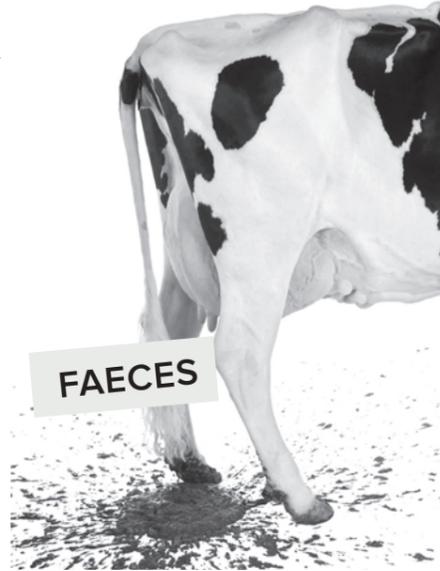


GREAT TIT



ATMOSPHERE

LEAF

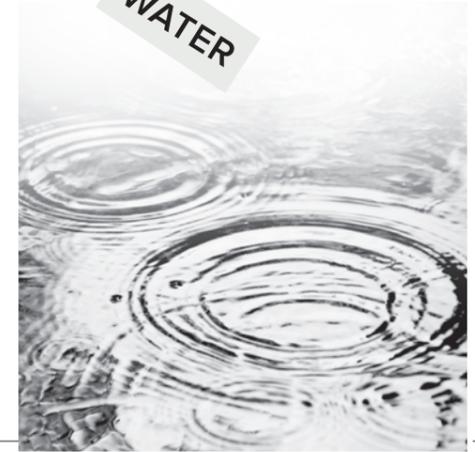


FAECES

HAWK



WATER



LANDFILL

LANDFILL

LANDFILL

LANDFILL

LANDFILL



LANDFILL

LANDFILL

LANDFILL

LANDFILL

LANDFILL



LANDFILL

LANDFILL

LANDFILL

LANDFILL

LANDFILL







## WORKSHEET

# Linear vs Circular

To understand circular systems, it can be helpful to understand what defines a linear one (what most of us are familiar with in the industrial world) and how they compare side-by-side. Man-made, linear systems are often based on a “take, make, dispose” model where products end up in landfill, whereas living systems are by their very nature, circular.

### STEPS

- 1 Get into a group of 3 or more people.
- 2 Separate the downloadable cards into two sets: a "living systems" set and the other which contains everything else.
- 3 Take the second set, and then arrange the cards to work out the life of a plastic bottle (tip: start with the oil rig). Ask yourself "and then what?" at each stage.
- 4 By the time you're finished with this set of cards, you will probably notice you have a long chain of cards which illustrate a wasteful and linear process.
- 5 Take some time to have a discussion about the accuracy of the systems you've just created. What might the system look like if the object's life you was even more complicated than a plastic bottle? A mobile phone, perhaps?
- 6 Now pick up the living systems cards. Arrange them in an order that makes sense. You might want to draw connecting arrows.
- 7 Compare and contrast the two systems: where are the similarities and key differences? Ask yourself how we could create products, services and systems inspired by living systems.