

## CURIOSITY TIME: MANURE

**VIDEO:** [Manure](#)

**LEARNING OBJECTIVE:** Students will learn about manure, where it comes from and what we use it for

**FOR AGES:** 4-8 years old

**LESSON TIME:** 1 hour



### INTRO (10'):

- Tell your students that today you will be learning about manure. Discuss the following:

- Do you know what manure is?
- Do you know how manure is used?
- What would you like to learn about manure?

- Ask for your pupils to sit down on the carpet facing the board, and project [this video](#).



### ACTIVITIES (25'):



For this activity you will need the following materials: a large plastic bin with a lid, soil, stones, and a drill. You will be making a

- It is very important to ventilate your bin. Drill holes on the bottom and the sides, and even eventually on the lid.

- Divide your students into 3 groups:
  - Group 1: Will go outdoors and collect small stones from the playground area
  - Group 2: Will carry the bags of soil and empty them inside the bin making sure there are layers of stones between the soil layers as well
  - Group 3: This group will go to the cafeteria and ask the staff to provide them with some of the greens/raw leftovers (no meat or fish) so that they can put it in the bin as a starting point
- Fill the bin: 3 parts soil and stones, and 2 parts compost/greens
- Observe how your bin changes throughout the following weeks. What is the end product? Do you see 'life' in it? What is the function of these worms?

If you feel it is appropriate, you can even extend this project out to the rest of the school?



## PRACTICE WORKSHEETS (20'):

### WORKSHEET FOR YOUNGER STUDENTS (PAGE 1)

Young students will write and draw about what they've learned after watching the video. They will have to write what each animal's poo can be used for and make a drawing of it.

### WORKSHEET FOR YOUNGER STUDENTS (PAGE 2)

Older students will be asked to investigate how manure turns into fuel.

*\* The teacher should feel free to use [these materials](#) in any way that matches the needs of their students: promoting independent work, getting students in turns to do the activities on the board, etc.*

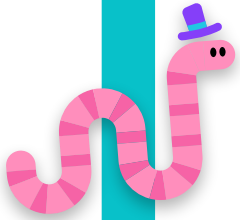
## TIDY UP (5'):

Allow for students to clean up the classroom, put materials away, and get ready for the next class.



## ADDITIONAL ACTIVITIES FOR CURIOSITY TIME: MANURE

### SCIENCE CREATE A WORM FARM:



Worms are great at making fertilizer/manure and helping reduce household waste, as you can use it to process food scraps and other organic materials. Place a layer of moist bedding (made from old compost) into the bottom of your worm farm. This should be around 8 cm deep. Add the worms. Make sure to cover the top once you have put them in. Add your food waste scraps to one half of the worm farm. Leave the worm farm for a week to let the worms get used to their new home.

### LITERACY POSTER PRESENTATION:

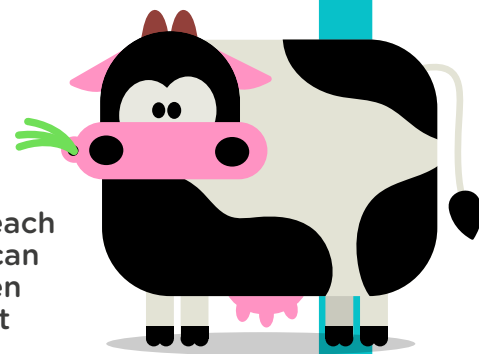
Create a poster explaining everything that you have learned about manure and why it is important for us to use it. We suggest you present your poster to others and explain it to them. Make sure you are including at least 3 photos, 2 drawings/diagrams, and 1 question to ask to your 'audience' at the end of your presentation.

### CRAFT APPLESAUCE:

Explain how manure is involved in helping grow healthy plants and vegetables. You will need a popsicle stick for each of the following parts:

- 1- Farm animals eating
- 2- Farm animals defecating
- 3- Animal poo with seeds in it mixed with soil nutrients
- 4- Seeds growing into healthy vegetables
- 5- You eating those delicious vegetables

You can use popsicle sticks to draw/write each step on each one of them. Once you have explained it to others, you can grab the popsicle sticks and ask the person who has been listening to your explanation to place them in the correct order.



### RESEARCH PAPER

In the video we learn that paper comes from elephant manure, but we are not given an explanation on how that process works. Grab a laptop or a tablet and investigate how this happens.