**Modelling Digestion Activity**

**Step 1:**  Tear the bread and put it into the mortar. Pour in approximately 20 mL of milk.

*What does the* *mortar represent?*

**Step 2:** Pour in approximately 10 mL of water.

*What does the water represent?*

**Step 3:** Use the pestle to mash the food and drink.

*What does the pestle represent?*

**Step 4:** Once the sandwich and milk resemble slop, empty it into the sandwich bag.

**Step 5:** Add approximately 25 mL of vinegar to the sandwich bag. Close the bag and use yours hands to mix the food with the vinegar.

*What does the sandwich bag represent?*

*What does the vinegar represent?*

*What do your hands represent?*

**Step 6:** Working over the tray, pour the chime into the stocking. Add two drops of yellow food colouring, then add two drops of detergent. Squeeze the food down the stocking in a peristaltic fashion. Separate the chyme to spread it out over the surface area of the stocking.

*What does the stocking represent?*

*What does the green food colouring and detergent represent?*

*What does the tray represent?*

**Step 7:**  The food now moves into the large intestine (not represented in this activity). Lay the stocking on multiple layers of newspaper and roll it up tightly, squeezing and patting as you go. This step may need to be repeated a few times if the first layer of newspaper gets saturated too quickly

*How does this represent the large intestine?*

**Step 8:** Cut a small hole in the stocking (if needed) and, once the material is semi-solid, squeeze one end of the food in a peristaltic fashion to eliminate the material.

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