

## Moo to You Extension Activities

### 2. Pasture Pick and Mix: Make your own silage.

Silage is made by cutting pasture plants and then fermenting them to lock in the nutrient content. Use a pair of scissors to cut a sample of your pasture plants. Place the plants into a zip lock bag. Expel ALL the air from the bag and seal it tightly. Check the bag every 2-3 days for up to 2 weeks. Do not open the bag – it will be SMELLY.

### 4B. Milk Shake: Magic Milk

It is a well-known fact that fat and water do not mix. Therefore, homogenised milk, which contains small, suspended fat molecules is considered to be a mixture. Pour some milk into a flat, shallow dish and add some drops of different coloured food colouring. Full fat milk works best. Dip the end of a cotton bud into dishwashing liquid. Carefully touch the end of the cotton bud onto a drop of food colouring. Can you describe what is happening and why? Soap is made up of molecules that love both water and fat. When you add a drop of soap to the milk, its molecules move quickly to 'catch' the fat molecules. This is the movement that is observed in the coloured milk. Without the addition of food colouring, you would not see this movement.