

FIELD GUIDE: EXPLORATION 5

MOO-VELLOUS MILK PLASTIC



PLAY | GUIDE | DISCOVER

THEME: THE SCIENCE OF TRANSFORMATION | DIFFICULTY: 2/5 | TIME: 30 MINUTES (PLUS DRYING TIME)

SUPPLY LIST:

MILK | VINEGAR | FOOD COLOURING | SIEVE | COOKIE CUTTER/MOULDS | TOOTHPICKS



MEASURE APPROX 240ML OF MILK INTO A BOWL



ADD SOME WATER BASED FOOD COLOURING OF YOUR CHOICE (OPTIONAL) AND MIX



WARM MILK ON THE HOB FOR A FEW MINUTES UNTIL YOU SEE SMALL BUBBLES (IT SHOULD BE AROUND 50-60 DEG C), DO NOT BOIL



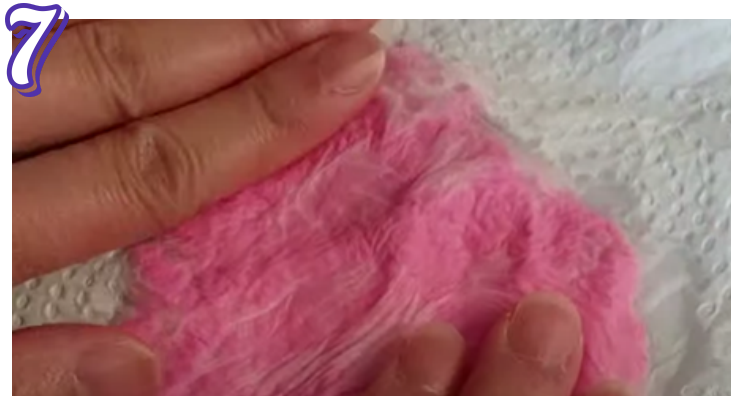
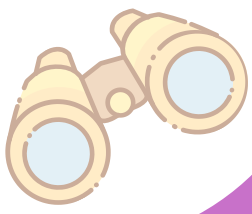
TAKE THE MILK OFF THE HEAT AND ADD A TABLESPOON OF VINEGAR



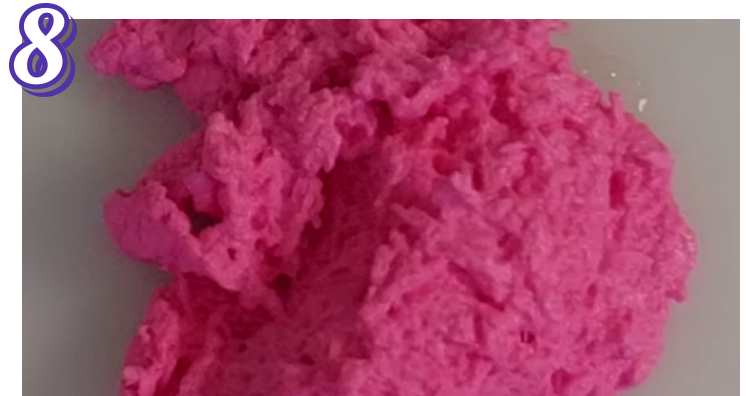
STIR THE MIXTURE - THE MILK SHOULD START TO SEPARATE INTO STRANDS OF PLASTIC



SIEVE OUT THE LIQUID AND MASH THE PLASTIC CURDS TO REMOVE AS MUCH LIQUID AS POSSIBLE



USE KITCHEN PAPER OR A TEATOWEL TO SOAK UP THE REST OF THE EXCESS LIQUID



THIS IS WHAT YOUR PLASTIC SHOULD NOW LOOK LIKE



PRESS THE PLASTIC INTO A COOKIE CUTTER OR MOULD



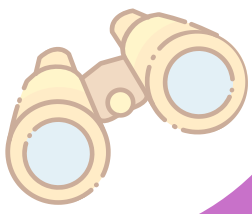
IF YOU WANT TO BE ABLE TO HANG YOUR DECORATION STICK A TOOTHPICK INTO IT. LEAVE TO DRY FOR A FEW DAYS IN A WARM PLACE



WHEN DRY, USE THE TOOTHPICK TO MAKE THE HOLE BIGGER AND THEN REMOVE IT



ADMIRE YOUR CREATION MADE FROM MILK!



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ADD A PIECE OF CORD AND BEAD/S TO MAKE A WEARABLE NECKLACE

HAVING TROUBLE?

- MILK DIDN'T CURDLE? THE MILK MIGHT NOT HAVE BEEN HOT ENOUGH. MAKE SURE IT IS STEAMING BEFORE ADDING THE VINEGAR
- CLAY TOO CRUMBLY? THERE MIGHT STILL BE TOO MUCH VINEGAR OR TOO LITTLE MOISTURE. TRY RINSING THE CURDS GENTLY WITH WATER WHILE IN THE STRAINER NEXT TIME, AND MAKE SURE TO KNEAD THOROUGHLY TO SMOOTH IT OUT.
- CREATIONS TAKING TOO LONG TO HARDEN? ENSURE YOU SQUEEZED OUT AS MUCH LIQUID AS POSSIBLE WITH THE PAPER TOWELS. KEEP THEM AWAY FROM DAMP AREAS WHILE DRYING!



STUCK? SCAN THIS CODE TO WATCH A DEMONSTRATION OF THIS EXPLORATION

SIGN UP [HERE](#) TO GET YOUR BONUS MISSION PACK WITH EXTRA ACTIVITIES! (OR SCAN THE QR CODE)

