

EPSRC CDT at 'Science in the Park'

# **PHOTO ALBUM**

The University of Nottingham  
UNIVERSITY ROAD - CLIVE - NOTTINGHAM

### What Are They?

Ointments and creams are mixtures of oil, water and other ingredients. Ointments have more oil than creams—this means they work really well on the skin.

### How Are They Made?

In the past, pharmacists made lots of the medicines given out in pharmacies. Now, most ointments and creams are made in factories. The pharmacist checks that what the patient is given is safe, will do the job, and is just what the doctor ordered!




EPSRC  
Engineering and Physical Sciences Research Council

CDT in Advanced Therapeutics and Nanomedicine

### Making Medicines into Tablets

Step 1: Fill up with powder    Step 2: Press punches    Step 3: Lift up punches    Step 4: Tablet

Powder contains: medicine, colouring and other ingredients that can be compressed or made a tablet special!



Did you know that tablets can have different shapes, sizes and colours? We will show you how!















FAST

VERY  
250 ml  
PR6

Yellow instruction sheet with illegible text.



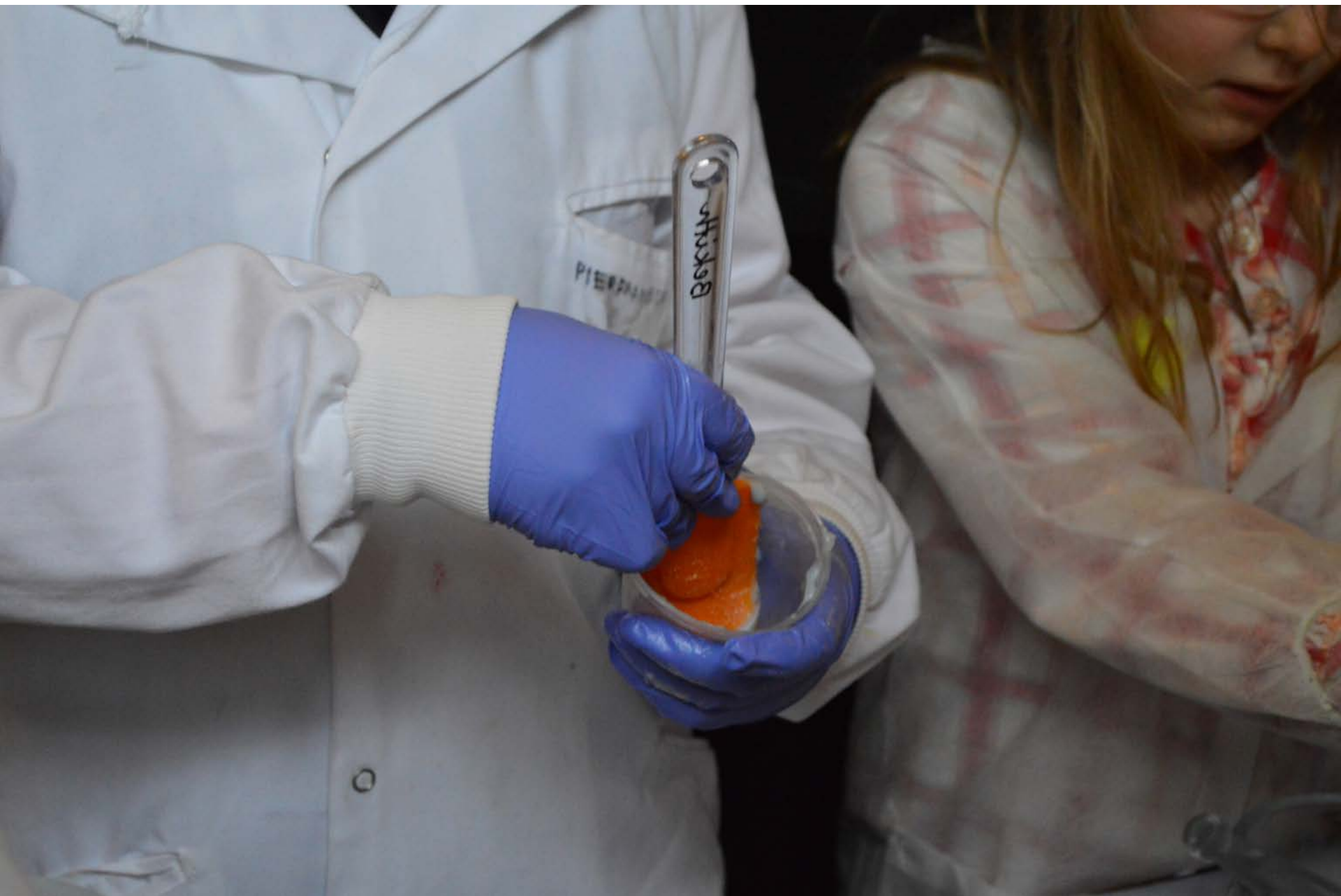












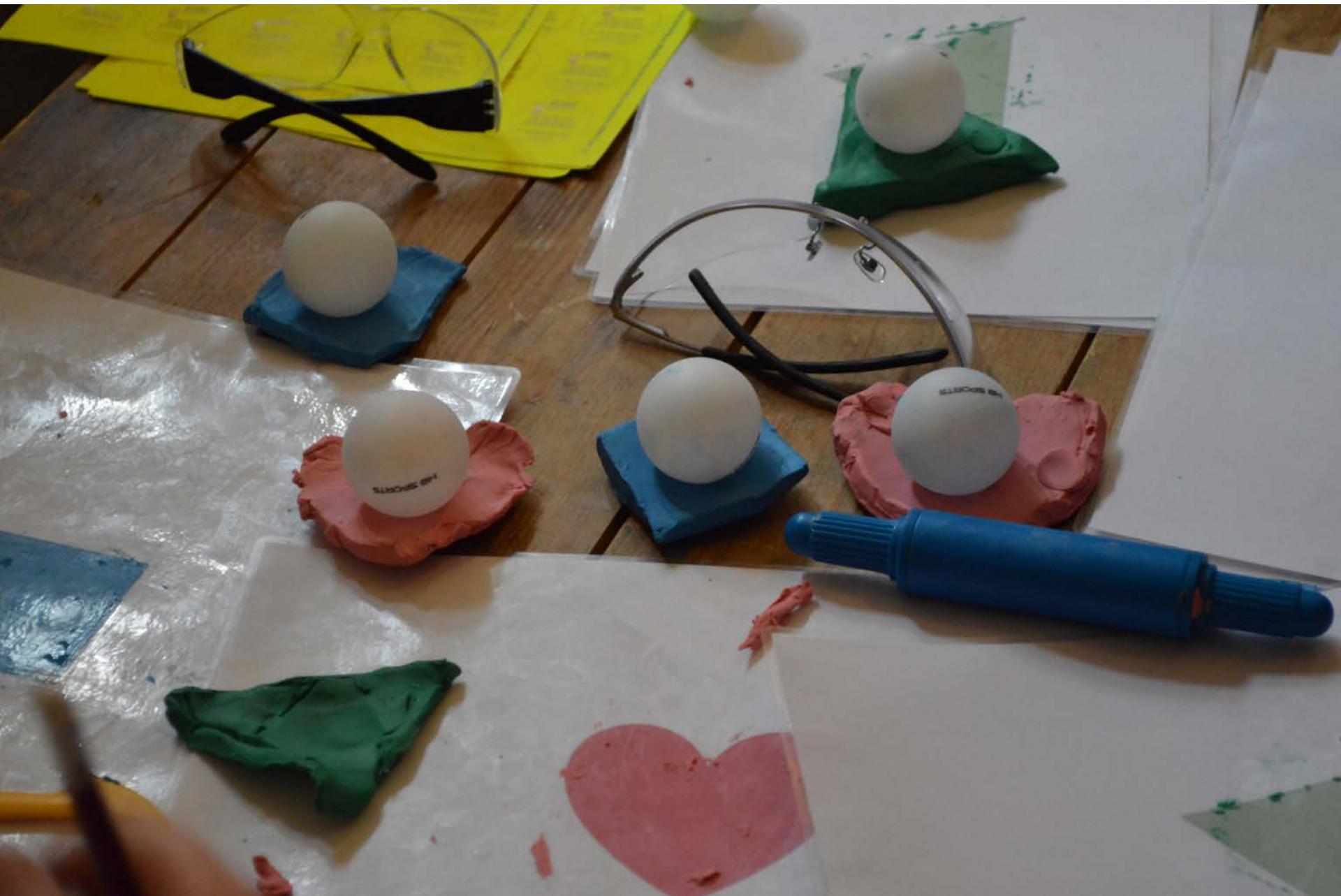






























The **lungs** allow you to breathe, and by doing so allow oxygen into the blood. Think of a cough that's your lung

The **heart** pumps blood around the body to provide nutrients and oxygen. When you're scared or anxious that's your heart that is beating faster!

**PSE**

Engineering and  
Research Centre



The **brain** controls your nervous system, which sends messages to the body.

Think of a headache, that's your brain!



roughly a 100 times  
a strand of

**They can have**  
**them, and will**  
**the drug to th**





















# What Are They?

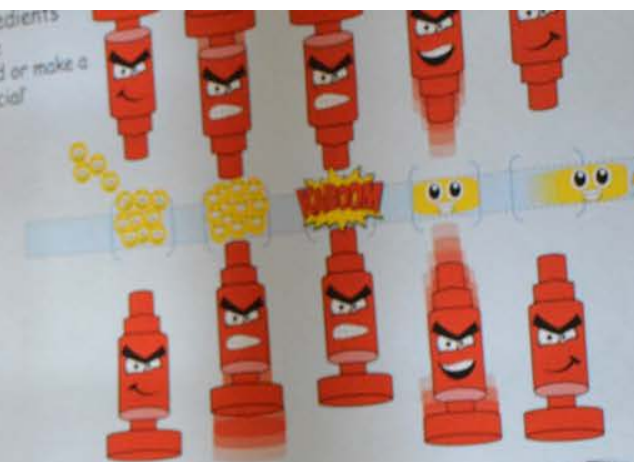
Ointments and creams are mixtures of oil, water and other ingredients. Ointments have more oil than creams—this means they work really well!

# Creams and Ointments

## What Are They For?

In the past, pharmacists made lots of the medicines given out in pharmacies. Now, most ointments and creams are made in factories. The pharmacist checks that what the patient is given is safe, will do the job, and is just what the doctor ordered!

other ingredients that can be compressed or make a tablet 'special'



Did you know... can have sizes



Round

For a medicine with small parts...  
me...  
You









CDT in Advanced Therapeutics  
and Nanomedicine

LEVEL  
the tablet needs to break into  
an infant and make the  
way into the body  
with all

Fisherbrand  
Disposable Culture Tubes  
Call No. 1-800-328-2222













controls your  
nervous system  
which sends  
messages to  
your body.  
Think of a  
headache, that's  
your brain!

100 times smaller than  
a strand of human hair!

The lungs  
to breathe



Targeted drug therapy with  
nanoparticles

Can you send the nanoparticles with  
their target organ??

Nanoparticles are particles





nervous system,  
which sends  
messages to the  
body.

Think of a  
migraine, that's  
your brain!







The University of Nottingham

UNITED KINGDOM CHINA MALAYSIA

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Ointments and creams are mixtures of oil, water and other ingredients. Ointments have more oil than creams—this means they work really well!



## Creams and Ointments

### What They For?

EPSRC

Engineering and Physical Sciences Research Council

## How Are They Made?

In the past, pharmacists made lots of the medicines given out in pharmacies. Now most ointments are made in factories. A pharmacist checks the patient is given the right job, and it is just ordered!

EPSRC

CD1 in Advanced Therapeutics and Nanomedicines

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Powder contains: medicine, colouring and other ingredients that can be compressed or make a 'tablet special'!



