

What Impacts Fertility?

IVF also explored

Knowledge, Skills & Actions

To define and describe the human fertilisation process at a cellular level

To explore what makes women and men fertile and understand ways to improve fertility

To understand the various ways women can become pregnant including IVF Treatment

New Vocabulary

IVF, Gut Flora, Fertility, Insemination, Fertilisation, artificial Insemination, Sperm Bank, Surrogate



3 Minutes

Booklet Task:

Explain how to successfully grow vegetables
What is needed?

How does the concept of 'fertility' link to humans?
What is needed?
You have 3 minutes

PSHE

EFFECTIVE GROUND RULES

Show respect

- By listening
- Not interrupting
- Only 1 person talking at a time

It's OK to get things wrong

Conversations stay in the room unless it is a **safeguarding issue**

Be open and honest but **no personal comments** – Discussions will be about 'general situations'

PSHE CLASSROOM RULES DEALING WITH SENSITIVE TOPICS

SAFEGUARDING YOUR WELFARE & HAVING YOUR INTERESTS AT HEART

Use the agreed appropriate Language (**Avoid slang terms**)

Don't show the fact you are embarrassed through silliness

Don't make assumptions about people's values, attitudes, behaviours, life experiences or feelings

There are **no stupid questions**. A question box for anonymous Questions

Have a **non-judgemental approach**. No Put downs and challenge the opinion not the person

Go to the front section of your booklet and complete a base line assessment of how confident you feel about the topics below.

ASSESSMENT FOR LEARNING



NOT
CONFIDENT



CONFIDENT



VERY
CONFIDENT



BASELINE CONFIDENCE CHECKER

BEFORE THE LEARNING	1	2	3	4	5	6	7	8	9	10
I understand what impacts fertility for men and women										
I can explain lifestyle changes that improve fertility										
I can explain the process of IVF treatment										

2 Minutes

WHAT DO YOU THINK?



"Getting
pregnant is
easy"

Talking points

I think that ...
I don't think... is right
because...
My opinion is...
I would argue the same
because...
I disagree with... because
Building on what
An alternate way of looking
at this is...
I sort of agree, however....
In my view...
I would challenge what...
said because ...

Discuss the above statement with a partner; in your booklet, come up with two reasons supporting and two disagreeing. Then give your own view.

You have 5 minutes.

Key Term Definitions

In your booklet and with a partner; come up match the definition for the following Key Terms.
Do this in pencil as the answers will be revealed below. You have 2 minutes.

- a) FERTILITY
- b) GUT FLORA
- c) ARTIFICIAL INSEMINATION
- d) SURROGACY

Definition— [\[Click to Reveal\]](#)

A

Definition— [\[Click to Reveal\]](#)

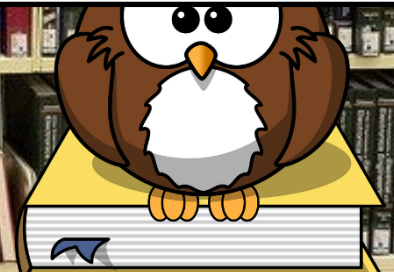
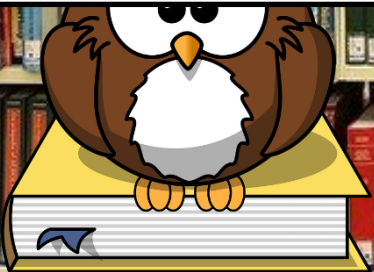
B

Definition— [\[Click to Reveal\]](#)

C

Definition— [\[Click to Reveal\]](#)

D



Human Fertilization at a cellular level magnification



Play video

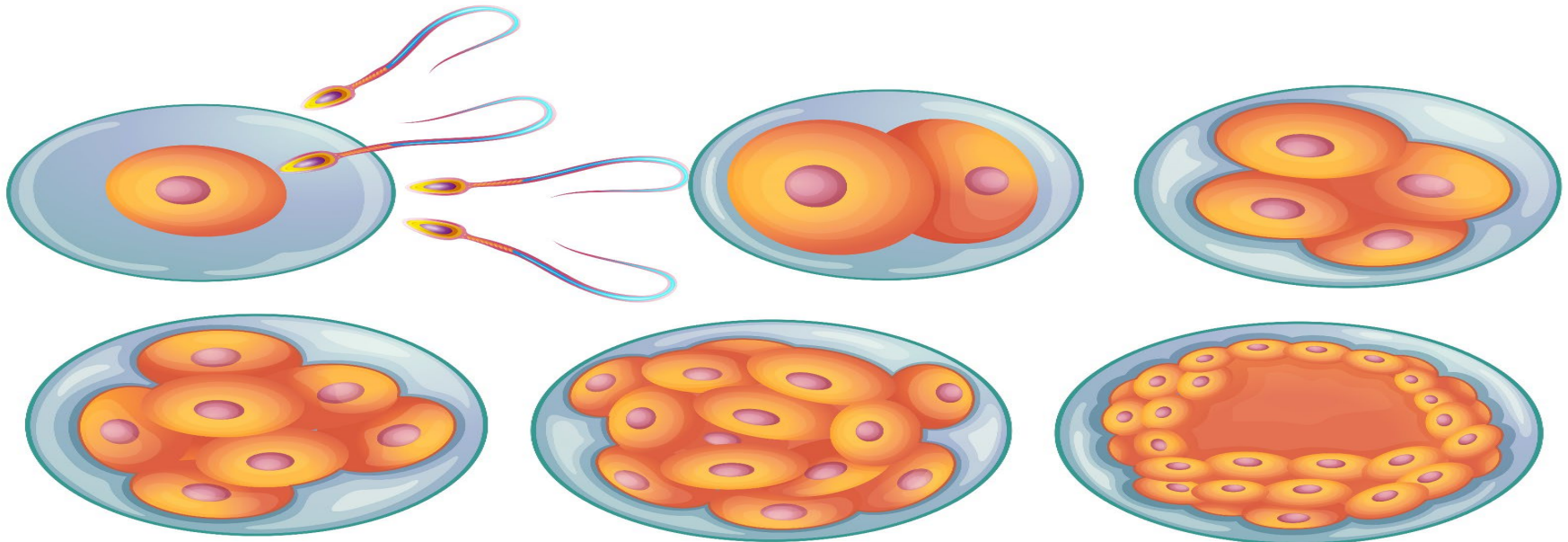
Nucleus Medical Media.

Your teacher will now play the video.

Task: In booklets, write down how the body helps the sperm reach the egg.

Warning - This is a very science heavy video.

FERTILISATION PROCESS



Some people are unable to conceive naturally and there are other avenues that can be explored

Your teacher will go through the different ways of overcoming infertility on this slide.

IVF IN VITRO FERTILIZATION

STEP 1



controlled ovarian hyperstimulation

STEP 2



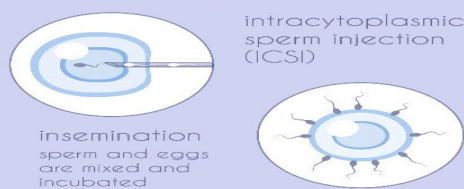
transvaginal oocyte retrieval

STEP 3



egg and sperm preparation

STEP 4



intracytoplasmic sperm injection (ICSI)

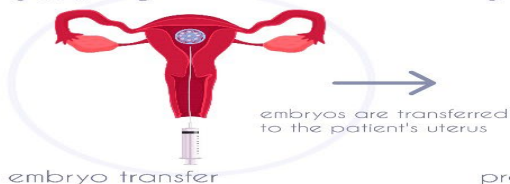
insemination sperm and eggs are mixed and incubated

STEP 5



embryo culture for 2-6 days

STEP 6

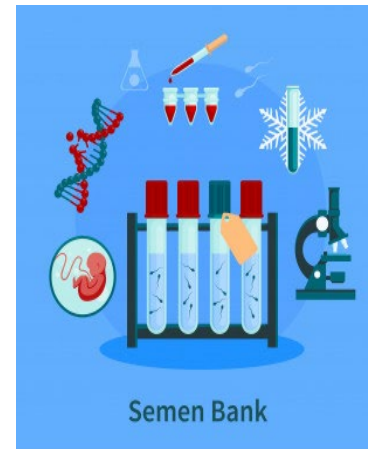


embryo transfer

STEP 7



pregnancy



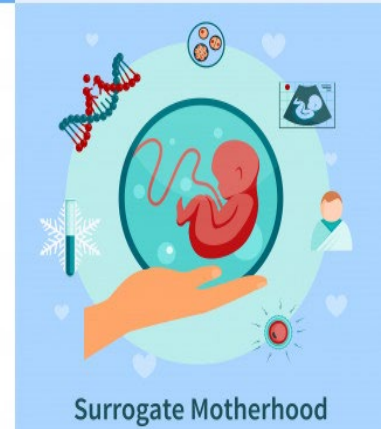
Semen Bank



Infertility Diagnosis



Artificial Insemination



Surrogate Motherhood

According to the **NHS**

The percentage of IVF treatments that resulted in a live birth was:

- 29% for women under 35
- 23% for women aged 35 to 37
- 15% for women aged 38 to 39
- 9% for women aged 40 to 42
- 3% for women aged 43 to 44
- 2% for women aged over 44

Task

Read the **Fertility Research sheets** and create a leaflet for young women and young men about improving their fertility

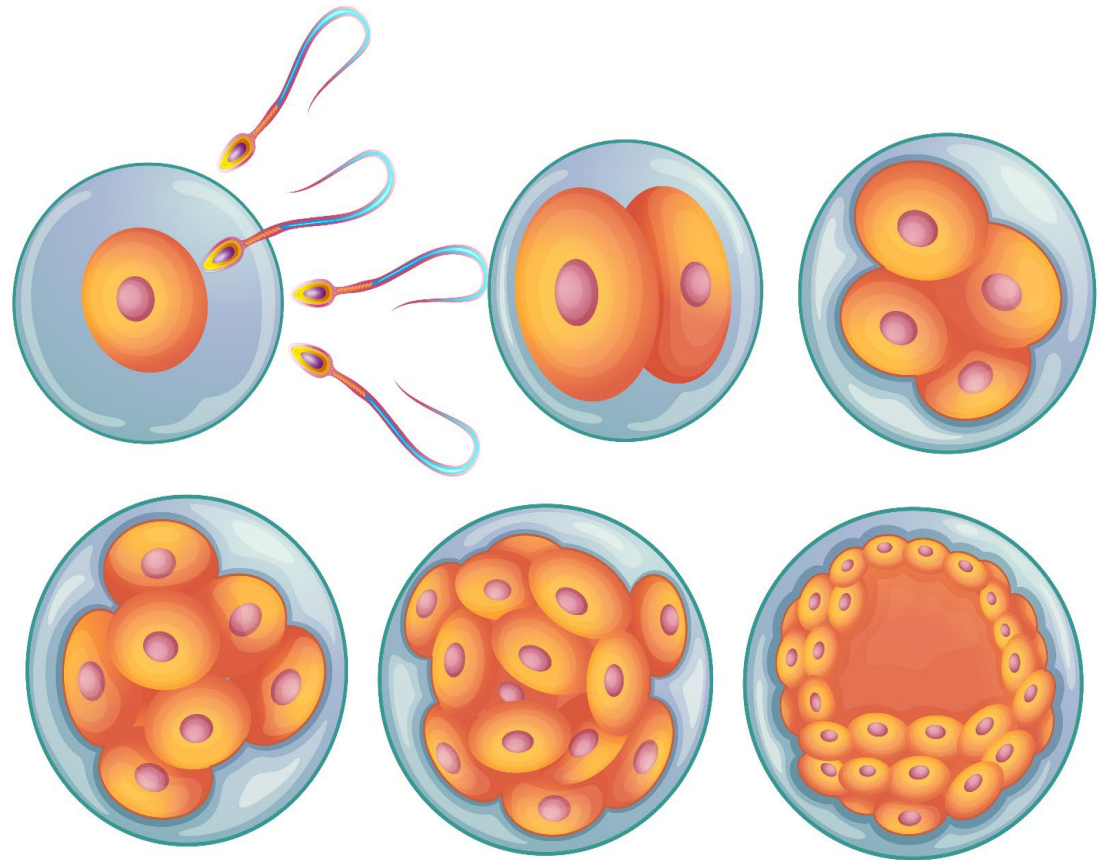
Did you know?

From 31st December 2020 the Tax levy on period products will be removed after Britain leaves the EU

Success Criteria: SUCCESS CRITERIA

- ✓ Define fertility
- ✓ Negative impacts on fertility
- ✓ Present a range of possible solutions
- ✓ How to improve fertility for women
- ✓ Facts and statistics
- ✓ A basic overview of the fertilisation process
- ✓ A section on how boys can improve their fertility







FERTILISATION PROCESS



ASSESSMENT FOR LEARNING

Confidence Checker



AFTER THE LEARNING	1	2	3	4	5	6	7	8	9	10
	NOT CONFIDENT				CONFIDENT				VERY CONFIDENT	
I understand what impacts fertility for men and women										
I can explain lifestyle changes that improve fertility										
I can explain the process of IVF treatment										

IMPORTANT
INFORMATION

SEEKING SUPPORT

Enjoy the lesson, Challenge
your perceptions and
understand how to seek
further advice and support

IMPORTANT
INFORMATION



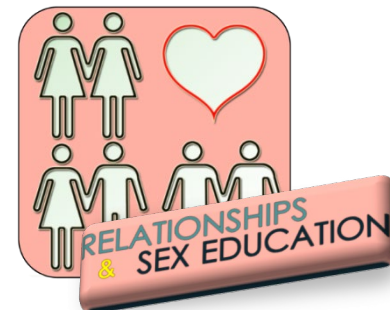
FOR MORE INFORMATION ABOUT THE TOPICS COVERED IN THIS UNIT
WE WOULD ADVISE ONE OF THE BELOW:

SPEAK TO YOUR PARENTS/GUARDIANS OR HEAD OF YEAR,
TRUSTED ADULT OR FRIEND IF YOU HAVE ANY CONCERNS ABOUT
YOURSELF OR SOMEONE YOU KNOW - IT IS ALWAYS IMPORTANT TO TELL SOMEONE!

VISIT THE BROOKE WEBSITE <https://www.brook.org.uk/> FOR ADDITIONAL SUPPORT ON SEXUAL HEALTH
AND WELLBEING FOR UNDER 25s

SPECIFIC FURTHER INFORMATION ON THIS TOPIC CAN BE FOUND
HERE:

- ☐ some pharmacies
- ☐ a sexual health clinic (GUM clinic)
- ☐ a contraception clinic
- ☐ some young people's services - call the national sexual health helpline on
0300 123 7123 for details
- ☐ Brook centers - for under-25s
- ☐ GP surgeries
- ☐ NHS Website <https://www.nhs.uk/live-well/sexual-health/>



2 Minutes



SIGNPOSTING
SUPPORT

HELP & SUPPORT
SERVICES

FURTHER
INFORMATION

REFLECTION PLENARY

I know if I need further support or help I could speak to.... or contact...

Before I could/would say and do ... but now I feel I am able to say

Before I only knew ... now I also know ...

I supported others by...

One thing I didn't realise was... now I know that...

The key words for this lesson are...

I always knew ... but now I can see how it connects to...

The most important thing I have learnt today is...

I'm really proud of the way I have...

I used to feel ... but I now feel ..

I would like to learn...

A question I would like to ask is...

Before I thought that ... but now I realise..

One assumption of mine that was challenged was...

Today I have tried to...

Next lesson I would like to..

Before I would have done... Now I will ...

Before I would have said ... but now I will say...

A problem I overcame today was...

2 Minutes

