



Meet the Experts - Part 1

THIS TASK IS FOR THE WHOLE GROUP

You are going to meet one of the experts who gave today's talks. You will only have a short time with them.

Decide four questions to ask.

As a group:

- Think about what you would like to ask the scientists
- Do you want to ask them both the same questions or do you want to ask them different questions?
- You could ask them about their opinions on stem cell research, their own research work, or how they became a scientist.

It's up to you...

If the group disagrees about what questions to ask, how will you decide?

When you have agreed on your questions, go to HQ to make an appointment with an expert.



Meet the Experts - Part 2

THIS TASK IS FOR THE WHOLE GROUP

You only have five minutes with the expert.

- Use the stopwatch to keep them to time.
- Ask the experts the questions the group decided on.
- Make sure they **answer** all your questions.
- Take **notes** of their answers.





For and against

THIS IS A TEAM TASK

- When you hear a new argument, either for or against stem cell research, write it down on the big sheets of paper so everyone can see it.

By the time you get to the debate you should have lots of arguments to use.



How do you get embryonic stem cells?

THIS TASK IS FOR 2 STUDENTS

- Cut out the pictures, arrows and captions.
- Put them together in the correct order to produce a flow chart.

Every arrow should have a label to go with it.





Newspaper and magazine articles

THIS TASK IS FOR 2 STUDENTS

You have each been given two newspaper and magazine articles about stem cell research. These have been taken from different publications

The articles may fit into a number of different categories.

They may be written to provide information or, they may be written to give the writers opinion.

- Read each article and try to work out if they are providing information or an opinion or both.
- Sort the articles into categories according to whether they provide opinions or information.
- Some articles may have both information and opinion - go through the articles and **highlight** the sections where the writer is giving an opinion.
- Are the articles balanced? Why? Why not?



Where and what

THIS TASK IS FOR 2 STUDENTS

**Where can you get stem cells from?
Are they the same wherever they come from?**

You have a set of purple, green, blue and grey cards.

- BLUE cards tell you the type of stem cells
- PURPLE cards tell you where they come from
- GREEN cards tell you what they are capable of

Match a purple and green card to each blue card.

5 bonus credits for matching the grey card to the correct type of stem cells.





Cartoon opinions

THIS TASK IS FOR 2-4 STUDENTS

Think about:

If someone states their opinion, do they say why they think that?

What sort of thing is likely to influence someone's opinion on stem cell research?

What is a stereotype?

Would you expect a religious person to have the same opinion as someone suffering from Parkinson's disease?

Now, draw a cartoon to show different people discussing stem cells.

You could include:

- Someone suffering from Parkinson's Disease
- A genetic scientist
- Yourself!

Try to include the **REASONS** for people's opinions.



Stem Cells and The Law How was UK stem-cell law made?

THIS TASK IS FOR 2 STUDENTS

This task will help you to understand the process of law-making in the UK.

There were a number of stages in the making of the current UK law to allow Embryonic Stem Cell Reset.

You have been provided with a number of cards that name each step in the process. Place these cards in the correct order to make a flow chart.

You have been provided with information to help you complete this task.

The first card is "the Human Fertilisation and Embryology Act of 1990".



Stem Cells and The Law The Law in Different Countries

THIS TASK IS FOR 2 STUDENTS

You have been provided with information about stem cells and the law in different countries.

Fill in the table provided to show the legal position of as many of different countries as you can on the following subjects:

Medical research using human embryos	Making embryos for research only (rather than using spare embryos for research)	Using human embryos to produce stem cells	Therapeutic cloning (cloning a human embryo to obtain stem cells identical to a patient)	Reproductive cloning (making a new baby that is genetically identical to another person)
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You can use information from the information sheets you have been given to help you complete this table.

Mind map

THIS TASK IS FOR THE WHOLE GROUP TO PERFORM

You have now heard from three speakers about stem cell research.

You will be given a set of tasks to help you find out more about the research.

Before you look at the tasks think about:

- What do you already know about stem cells?
- What else do you want to know?
- Where could you find that information?

Make a list or draw a mind map showing what you know and what you want to know.

Fill in the answers as you find them out.



Presentations

THIS IS A TEAM TASK

You have 15 minutes to prepare a presentation for the rest of the group.

The presentation:

- Must involve at least three group members
- May be in a style of your choosing
- Must last no more than 4 minutes
- Should include your group's opinions on stem cell research
- Must include the work from at least three of the research tasks.



TIME TABLE

2:00	15 min	Speakers
2:15	40 min	Tasks
2:55	15 min	Discussion
3:10	15 min	Prepare presentations
3:25	30 min	Give presentations
3:55	5 min	Close

EXPERT INTERVIEWS

	Speaker 1	Speaker 2
2:25		
2:30		
2:35		
2:40		
2:45		
2:50		



TIME TABLE

10:30	15 min	Speakers
10:45	40 min	Tasks
11:25	15 min	Discussion
11:40	15 min	Prepare presentations
11:55	30 min	Give presentations
12:25	5 min	Close

EXPERT INTERVIEWS

	Speaker 1	Speaker 2
10:55		
11:00		
11:05		
11:10		
11:15		
11:20		

CHECKLIST

Time table							
Mindmap							
Meet the experts 1							
Meet the experts 2							
Where and what							
Where and what cards							
Newspaper task							
News cuttings							
Cartoon opinions							
International law							
For and against							
Embryonic stem cells							
E-cell cards							
UK law							
UK law cards							
Wellcome labnotes							
UK law info							
Stem cell law info							
Glossary							
Stem cell info							