

Name: _____

Date: _____

Section: _____

IVF Simulator Activity

Baby Steps: Understanding IVF Technology

Phase 1: ENGAGE (5 minutes)

Getting Started: Open peebedu.com and navigate to IVF Simulator

Watch the introduction - you're about to help families have babies!

What's Happening?

Some families need help from doctors and scientists to have babies. IVF = In Vitro Fertilization ('test tube babies')

Think About It: Where do babies usually develop? _____ What does 'in vitro' (in glass) mean? _____ Why might this technology be helpful? _____

Fun Fact: Over 8 million babies worldwide have been born through IVF!

Phase 2: EXPLORE (18 minutes)

Mission 1: Egg Collection

Look at the eggs available. Each has different traits!

Egg Observation Chart:

Which egg looks healthiest? _____ Why? _____

Mission 2: Sperm Selection

Sperm need to be strong swimmers!

Sperm Quality Check:

- Fast swimmers: _____%

- Total count: _____ million

Good to Know: Healthy sperm swim like Olympic athletes - about amount of per minute!

Mission 3: Fertilization Time!

Combine egg and sperm to create embryos.

Fertilization Results:

_____ Yes/No _____ — Number of eggs _____

Success rate

Big Question: How does IVF show that science can solve human problems? _____

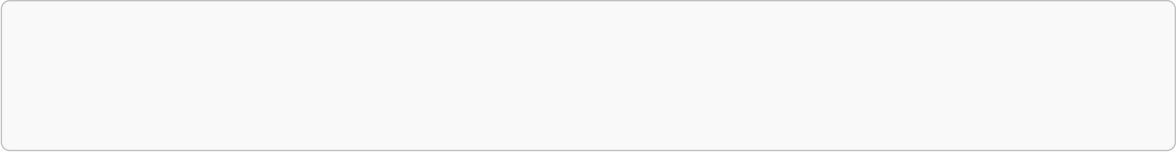
Reflection Corner:

- Most surprising fact: _____

- How I'd explain IVF to a friend: _____

Future Scientist Challenge: Invent one improvement to IVF technology:

- Your idea: _____

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- Drawing: [Space for illustration]
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Amazing IVF Facts:

- First IVF baby: Louise Brown (1978)
- Embryos can be frozen for years
- Some animals also use IVF (pandas!)
- Doctors can help prevent genetic diseases
- IVF has helped millions of families

Key Vocabulary

See activity for vocabulary specific to this topic.