



# Baby Brain Facts

## Babies:

- hear at around 24 weeks of pregnancy,
- recognise familiar voice at birth, and
- prefer faces to other shapes.



**We are hardwired for relationships!**

In the first years of life, more than 1 million new connections are formed every second in a baby's growing brain.

**The way babies' brains develop is shaped by their interactions with others.**



A range of research shows that **the way parents interact** with their babies **predicts children's later development.**



**Family income and education is strongly related to children's development.** Babies in higher income families are more likely to have frequent caregiver-child conversations. By age 3, babies with university educated parents have been found to have vocabularies 2-3 times larger than those whose parents had not completed school.

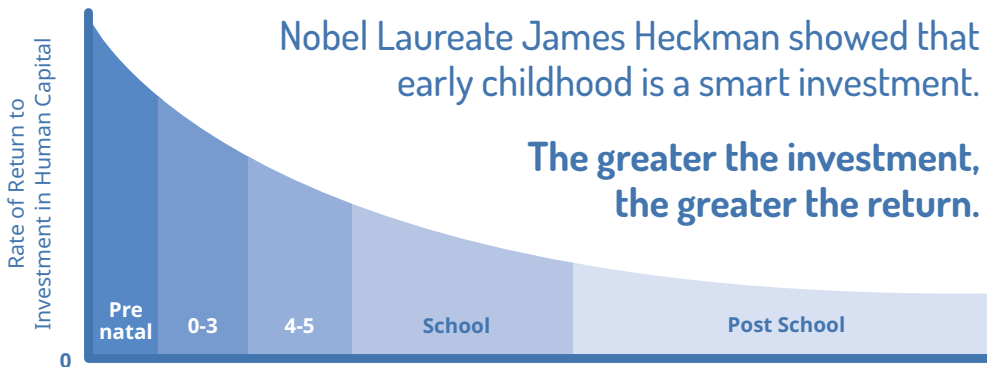


**Children's development in the early years sets them on a positive trajectory,** although what happens next also matters. Children's development at just 22 months has been shown to predict their qualifications at 26 years.



Nobel Laureate James Heckman showed that early childhood is a smart investment.

**The greater the investment, the greater the return.**



**8,300 babies under one** in England currently live in households where domestic violence, alcohol or drug dependency and severe mental illness are ALL present.

Rigorous long term studies found a range of returns between £4 and £9 for every pound invested in early intervention for low income families.

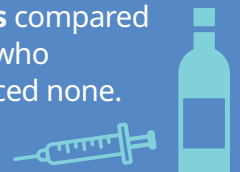


When parents experience problems in the first 1001 days it can have long term impacts on their children.

One study showed that children whose mothers were stressed in pregnancy were twice as likely to have mental health problems as teenagers.



Adults who reported four or more adverse childhood experiences had 4- to 12-fold increase in **alcoholism, drug abuse, depression, and suicide attempts** compared to those who experienced none.



**Tackling adversity + supporting early relationships  
→ healthier brains + better futures**