

VORTRAGSREIHE DER PROFESSUR ALLGEMEINE ERZIEHUNGSWISSENSCHAFT IM SOMMERSEMESTER 2024

WHAT'S MORE?

INTERNATIONALE UND TRANSDISZIPLINÄRE PERSPEKTIVEN AUF DIE ALLGEMEINE ERZIEHUNGSWISSENSCHAFT

ANDREAS HADJAR
Université de Fribourg

DAS VERHÄLTNISS VON BILDUNGSZOLOGIE
UND ERZIEHUNGSWISSENSCHAFT

08.05.2024 | 18:00 UHR | C10.113

DAVID P. BAKER
Penn State University

THE INEVITABLE EDUCATED PLANET: HOW CAN SOCIOLOGICAL
ANALYSIS OF EDUCATION INFORM THE EDUCATIONAL SCIENCES?

05.06.2024 | 18:00 UHR | C10.113

WIVIAN WELLER
Universidade de Brasília

ALLGEMEINE ERZIEHUNGSWISSENSCHAFT IN BRASILIEN:
ENTWICKLUNG UND PERSPEKTIVEN

26.06.2024 | 18:00 UHR | C10.113

HOW CAN SOCIOLOGICAL
ANALYSIS OF EDUCATION
INFORM THE EDUCATIONAL
SCIENCES?

David Baker

Penn State and Luxembourg
Universities

"Disciplinary Perspectives
on General Educational
Science"

TU Chemnitz, June 2024

FUNDAMENTAL QUESTION
ABOUT EDUCATION AND
SOCIETY
(2015)



The Schooled Society

DAVID P. BAKER

AN EDUCATED
PLANET:
WILL WE SURVIVE IT?



THEORETISCHE ZUGÄNGE ZUR
BILDUNGSREVOLUTION IN DER
POST-INDUSTRIELLEN
GESELLSCHAFT: MYTHEN UND
FAKTEN.

D. BAKER (2024)

MITTERLE, A. ET AL. (EDS.) WIESBADEN:
SPRINGER

Critique of neo-institutional
perspective on Education

dpb4@psu.edu

ASSUMPTIONS:

SYMBIOSIS EDUCATION SOCIETY
(NOT INFLATION)

EDUCATION WORKS (MOSTLY)

EDUCATION HUMAN RIGHT
(CANNOT RATION)



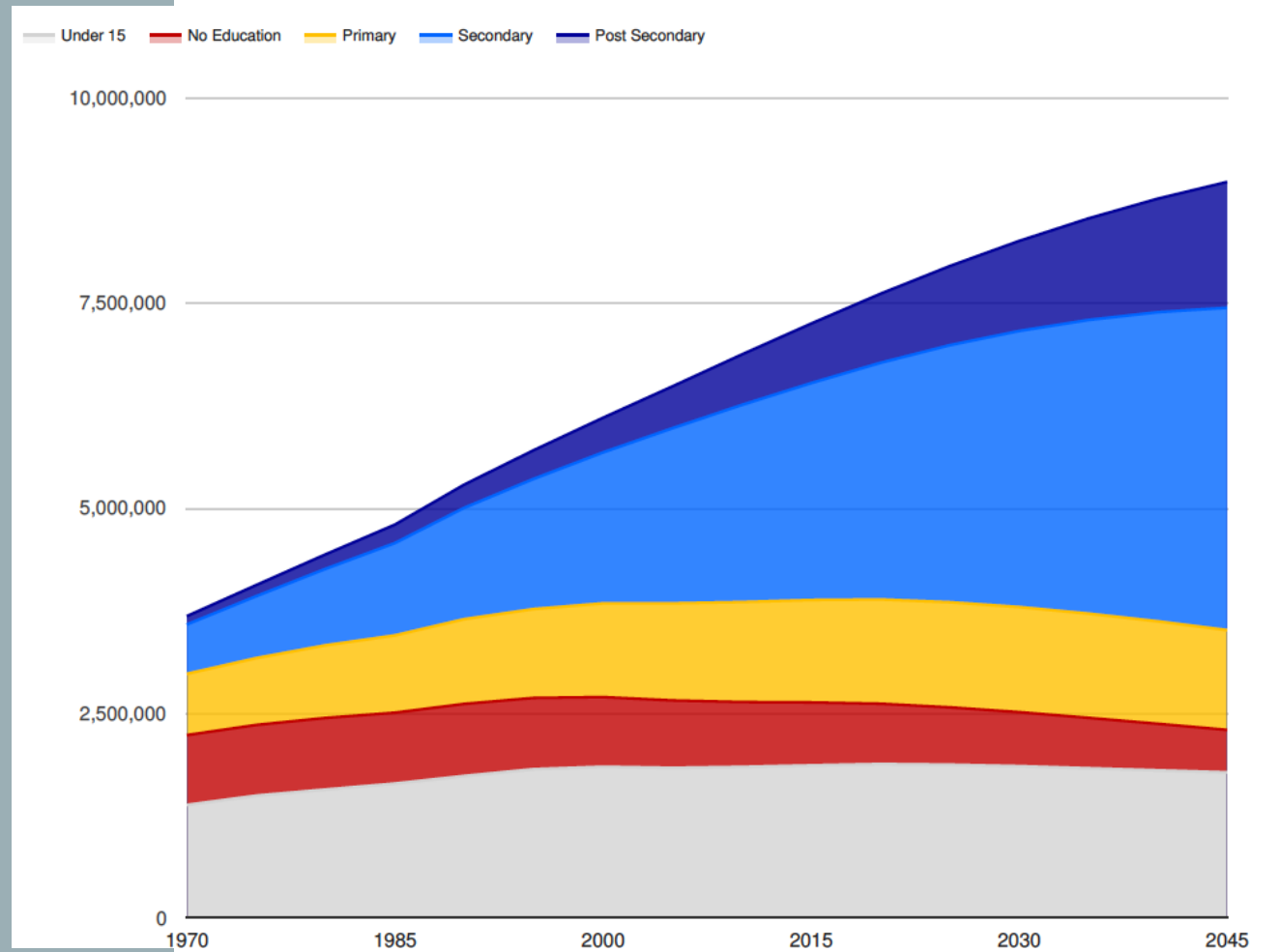
EDUCATION REVOLUTION



85% OF THE WORLD
IS LITERATE



EDUCATION REVOLUTION WORLD



40% WORLD'S
YOUTH IN
HIGHER
EDUCATION





DOES SCHOOLING CHANGE PEOPLE?

Neurological

Cognitive

Psychological



Contents lists available at [ScienceDirect](#)

Intelligence

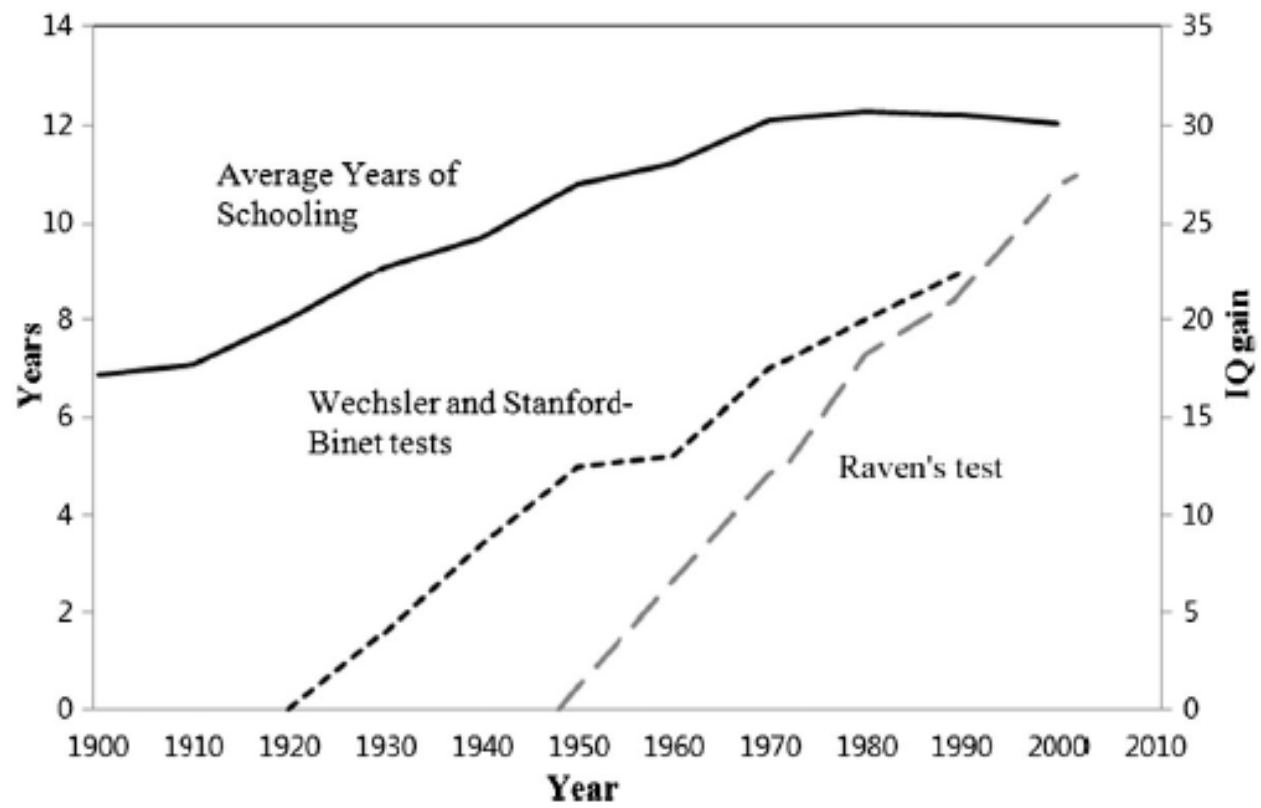



The cognitive impact of the education revolution: A possible cause of the Flynn Effect on population IQ



David P. Baker^{a,b,*}, Paul J. Eslinger^{c,d}, Martin Benavides^{e,f}, Ellen Peters^g,
Nathan F. Dieckmann^h, Juan Leon^e

^a Department of Sociology, Pennsylvania State University, United States





CAUSAL EDUCATION EFFECT ON BRAIN POWER (COG. EXECUTIVE FUNCTIONING):

1. SCHOOLING ACTIVATE CEF
NEURAL SUBSTRATE?
2. VARIATION ED. EXPOSURE AND
CEF?
3. HISTORICAL INTENSIFICATION?

CAUSAL EDUCATION EFFECT ON BRAIN POWER:

YES! SCHOOLING ACTIVATE CEF
NEURAL SUBSTRATE?

2. VARIATION ED. EXPOSURE AND
CEF?

3. HISTORICAL INTENSIFICATION?



PERUVIAN ANDES



Fit indexes:

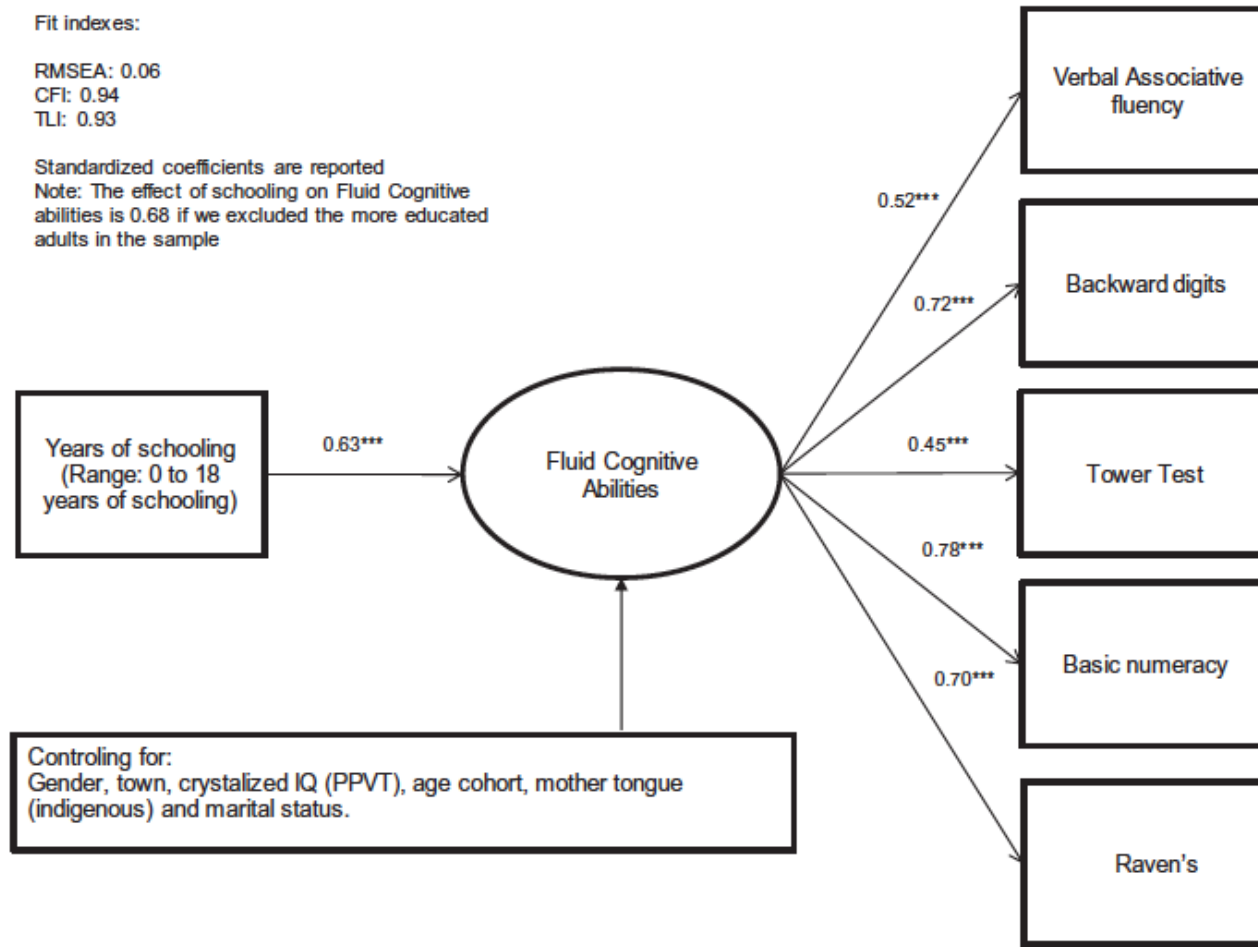
RMSEA: 0.06

CFI: 0.94

TLI: 0.93

Standardized coefficients are reported

Note: The effect of schooling on Fluid Cognitive abilities is 0.68 if we excluded the more educated adults in the sample



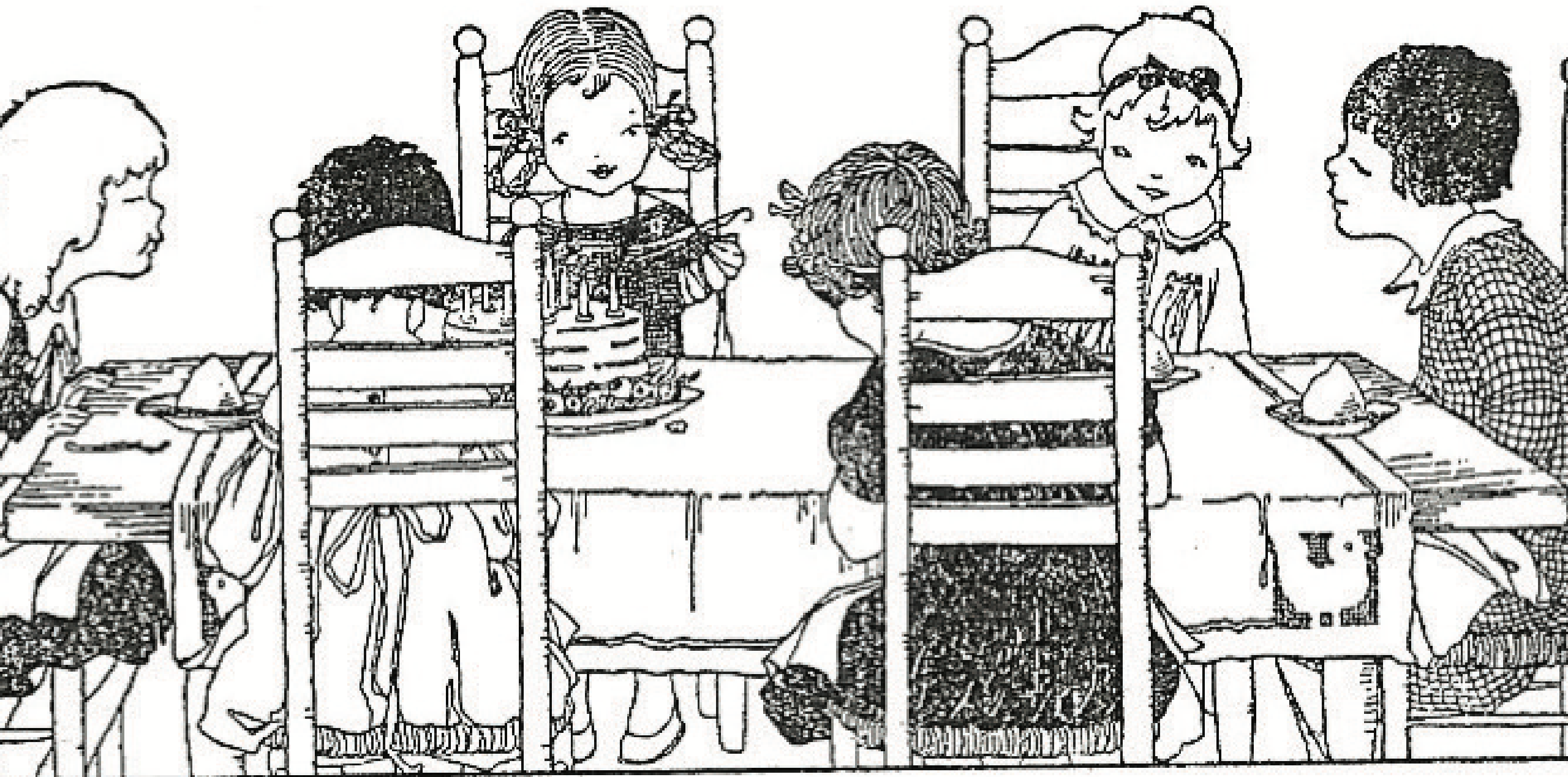
CAUSAL EDUCATION EFFECT ON BRAIN POWER

YES! SCHOOLING ACTIVATE CEF
NEURAL SUBSTRATE?

YES! VARIATION ED. AND
CEF?

3. HISTORICAL INTENSIFICATION?





Mixed Strategy Review

Try these or other strategies to solve each problem.
Tell which strategy you used.



Problem Solving Strategies

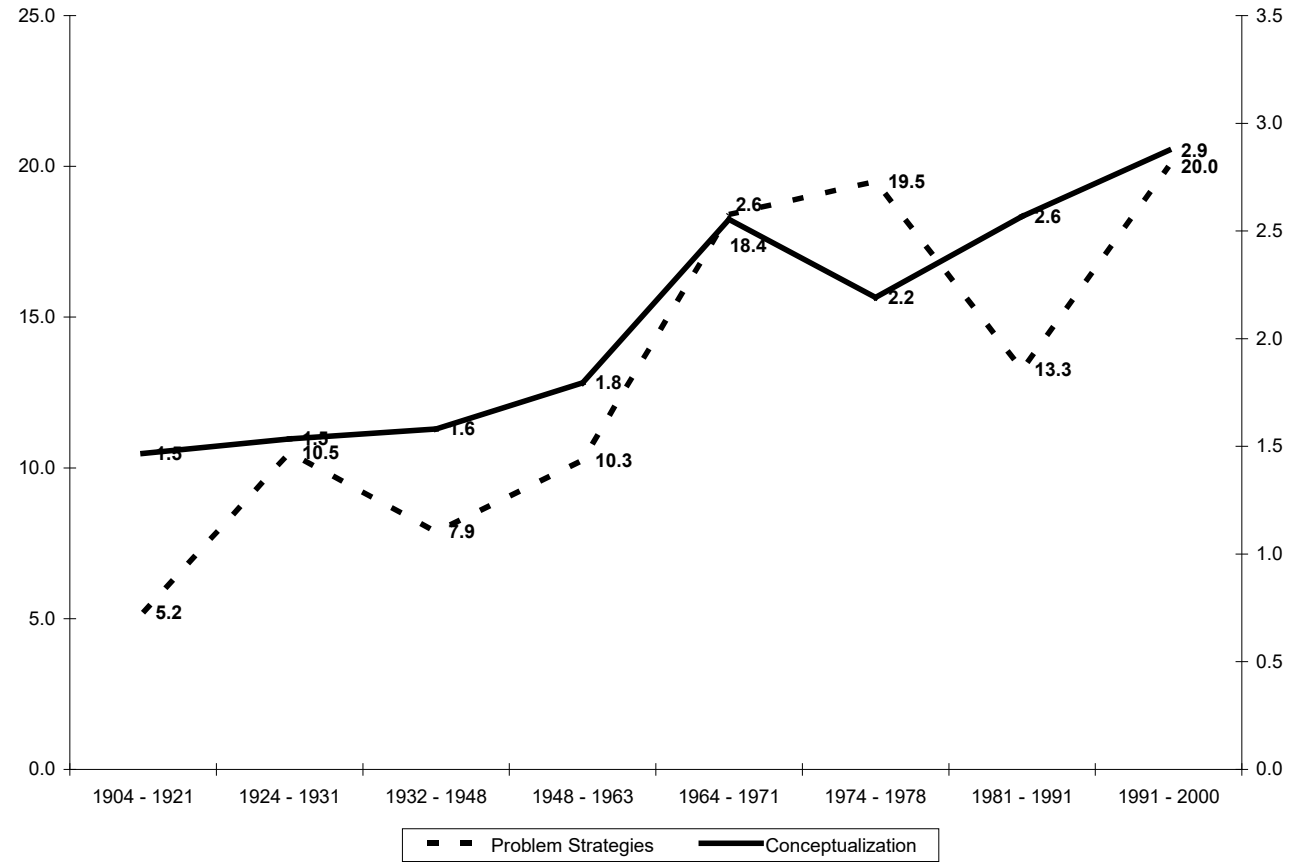
- Write a Number Sentence
- Find a Pattern
- Draw a Picture
- Solve a Simpler Problem
- Guess and Check
- Work Backwards

MIXED PRACTICE

Choose a calculation method. Use each method at least twice.

- | | | |
|---------------------|----------------------|-------------------------|
| 1. $182 - 28$ | 2. $150 - 70$ | 3. $\$59.98 - \26.75 |
| 4. $875 + 698 + 89$ | 5. $\$7.80 + \0.25 | 6. $\$50.00 + \80.00 |
| 7. $600 + 800$ | 8. $\$56 + \28 | 9. $\$170 - \90 |
| 10. $726 - 192$ | 11. $75 + 25$ | 12. $\$40.25 - \17.89 |

RISING
COGNITIVE
DEMAND OF
CURRICULA:
MATH +
READING



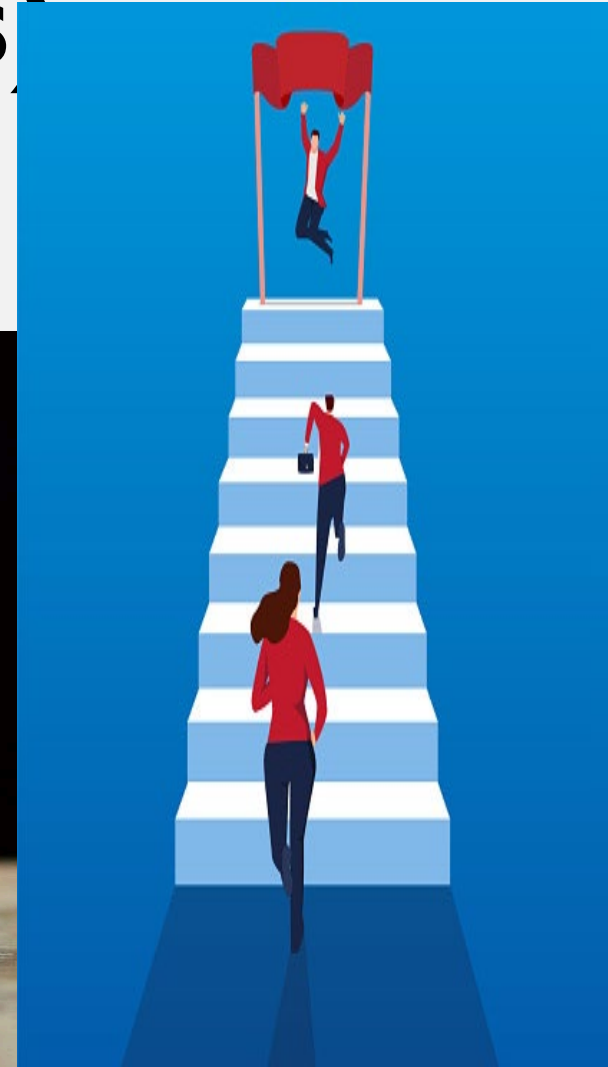
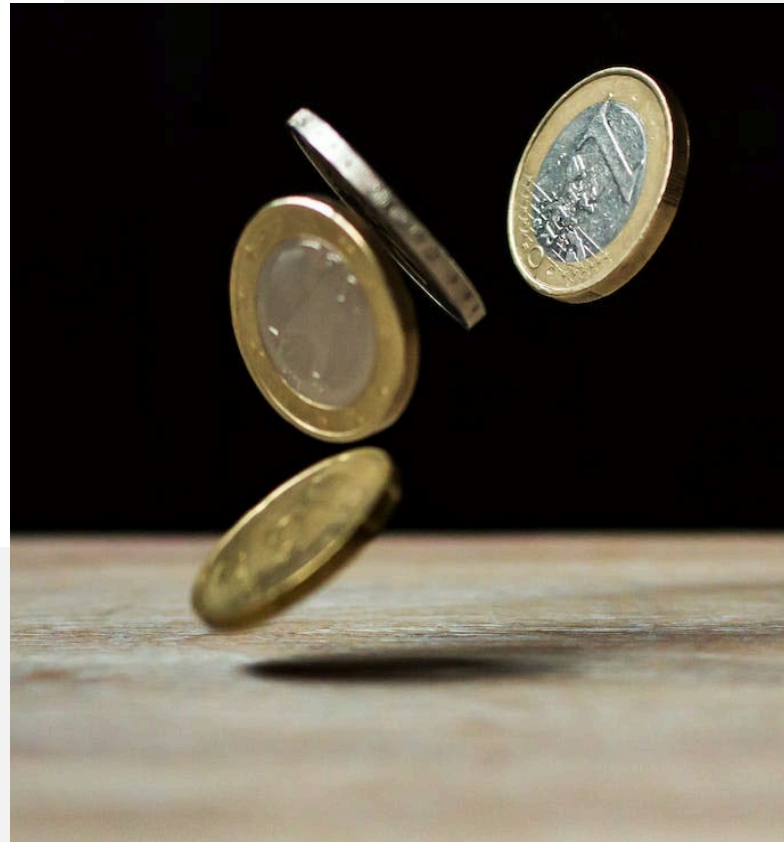
CAUSAL EDUCATION EFFECT ON BRAIN POWER

YES! SCHOOLING ACTIVATE CEF
NEURAL SUBSTRATE?

YES! VARIATION ED. AND
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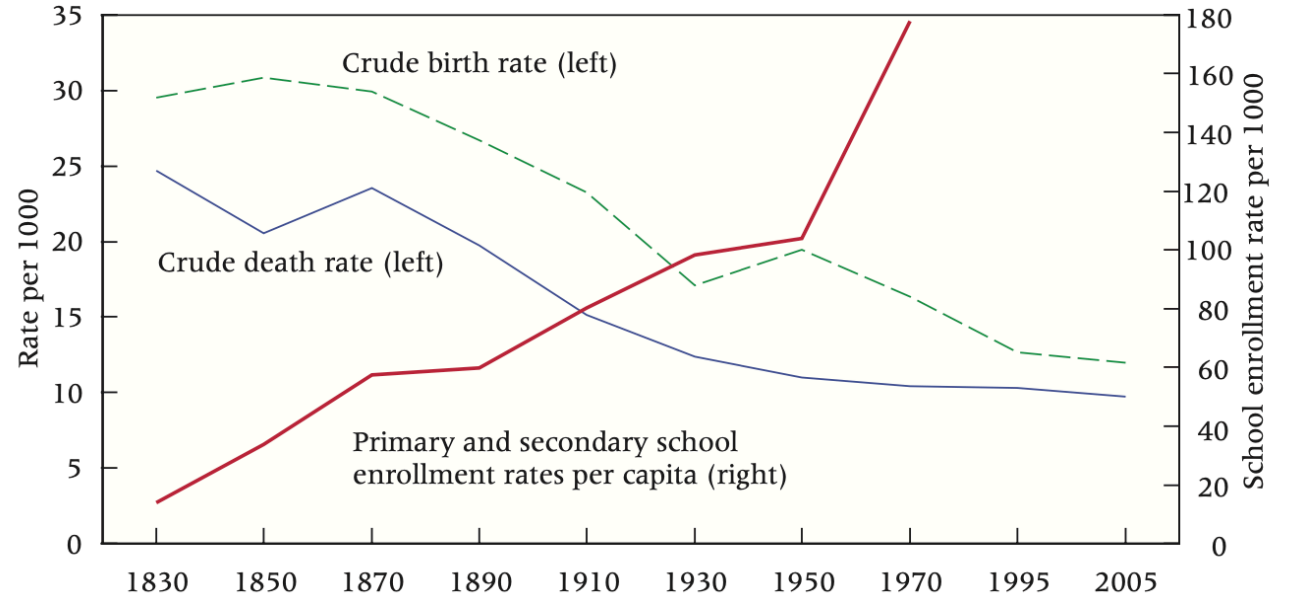
YES! 3. HISTORICAL INTENSIFICATION?

Evidence of Education on Society (Good, Challenges)





**FIRST DEMOGRAPHIC
TRANSITION AND THE
EDUCATIONAL
REVOLUTION**





EDUCATION
LOWERS BIRTH
RATES

IMPROVES
WOMEN'S
LIVES



BEHAVIORS OF SECOND DEMOGRAPHIC TRANSITION SPREADING WORLDWIDE:

EDUCATION MAIN DRIVER

Less Traditional Marriages

Less Childbearing

More Delayed First Marriage

More Delayed First Birth

More Never Married

More Birth in Consensual Unions

More Divorces

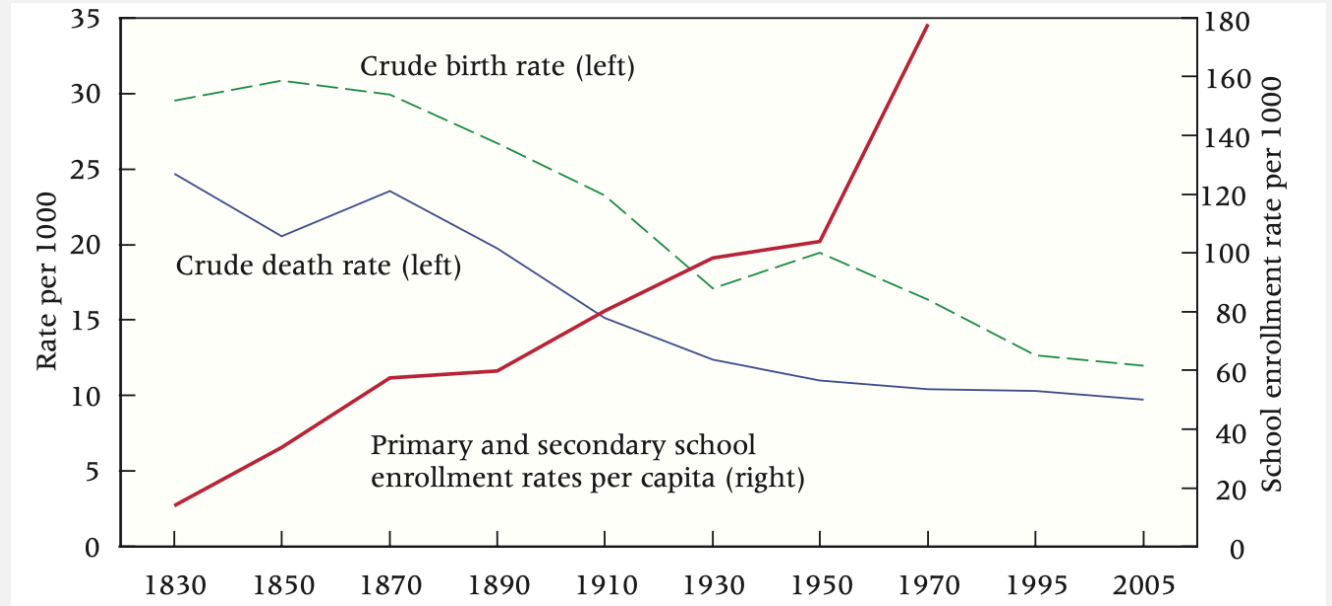
Less Teenage Births

LONELY PLANET

After the Deluge: Downsizing
Society



**FIRST DEMOGRAPHIC
TRANSITION AND THE
EDUCATIONAL
REVOLUTION**



GRAYING SOCIETY

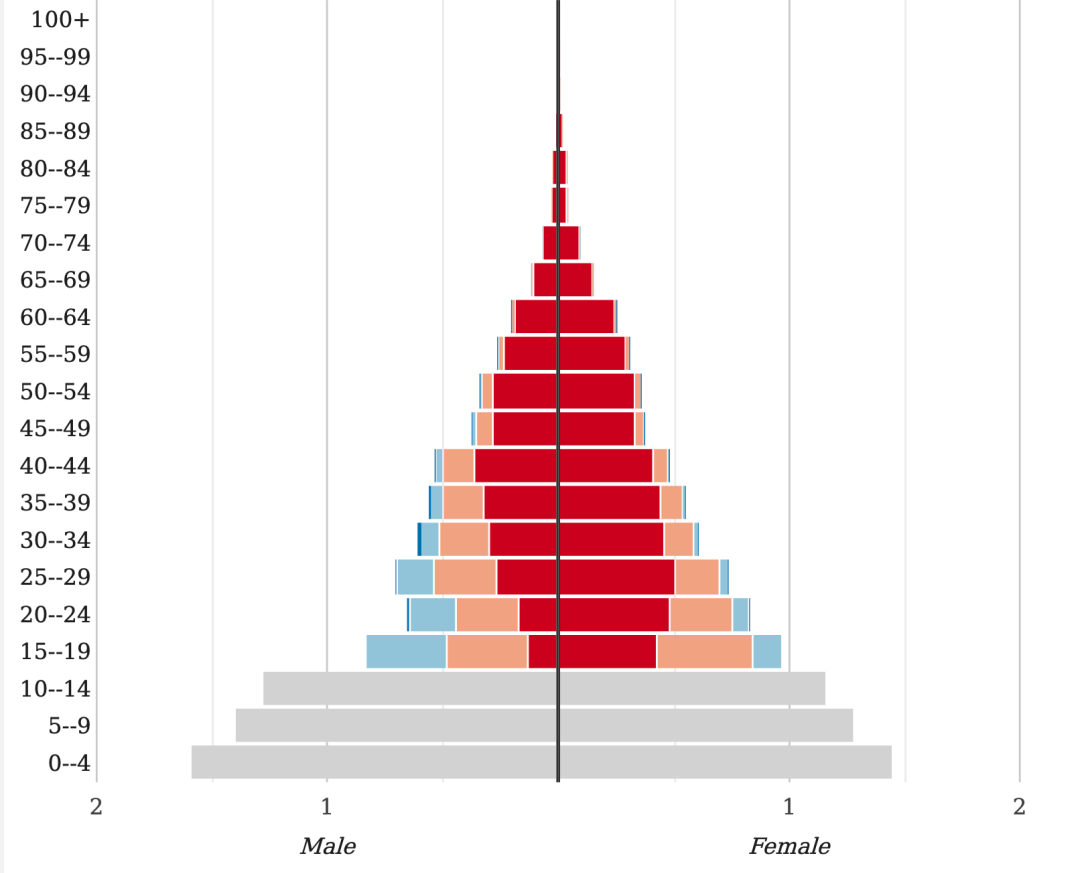
High Old-age Dependency
Ratio

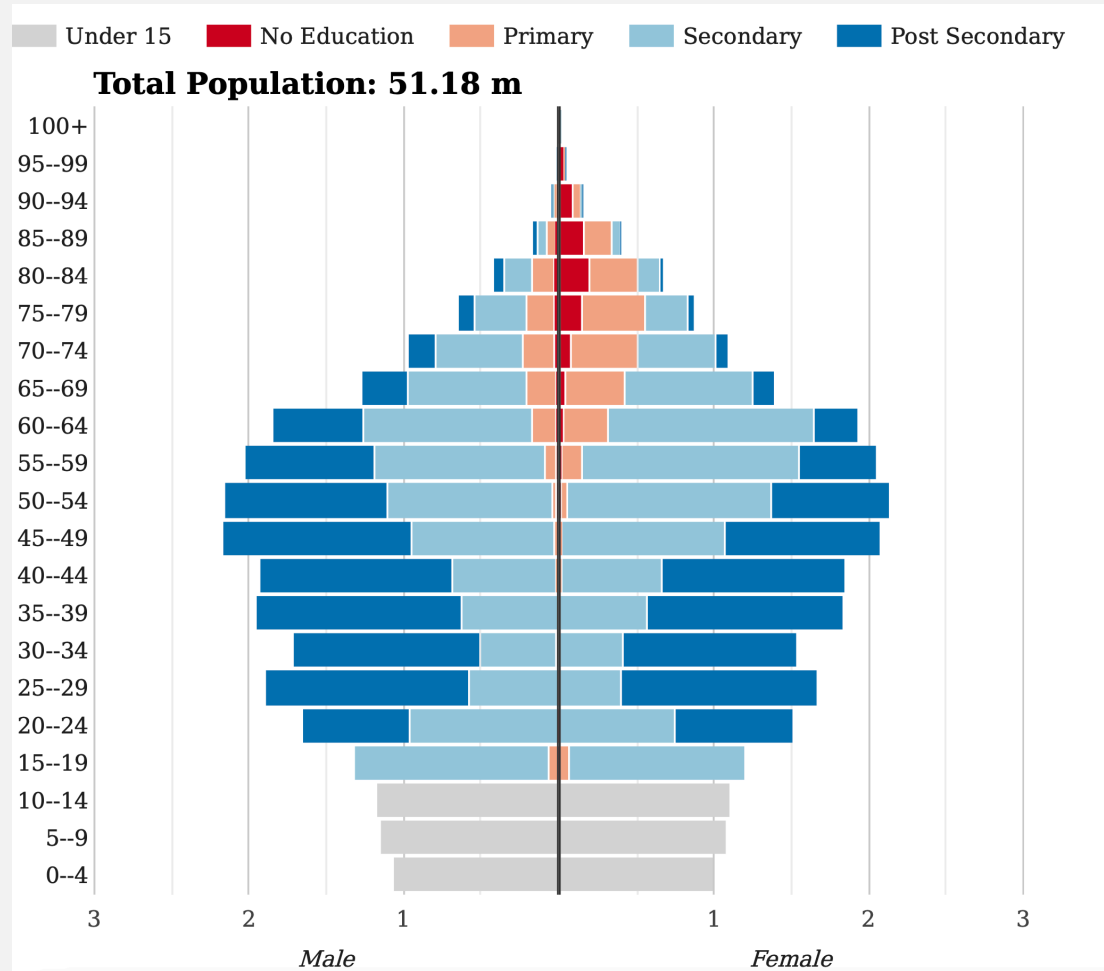
(Germany went 16 to 41
elderly to 100 workers in
50 years)



Under 15 No Education Primary Secondary Post Secondary

Total Population: 19.21 m

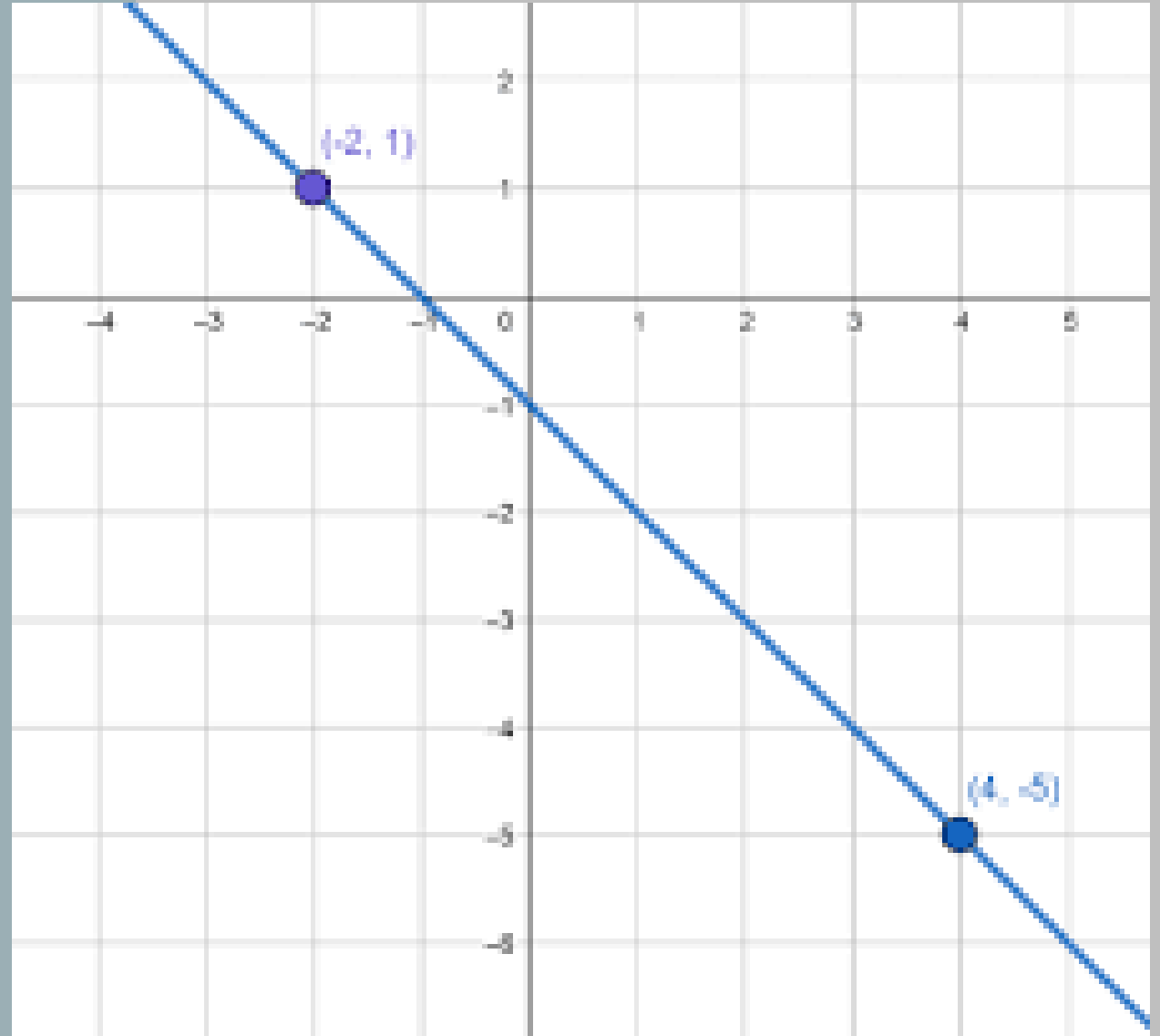




EDUCATION
DOMINATE FACTOR
HEALTH AND
LONGEVITY

Education Gradient:

More Education, Less
Morbidity and Mortality



PERUVIAN ANDES



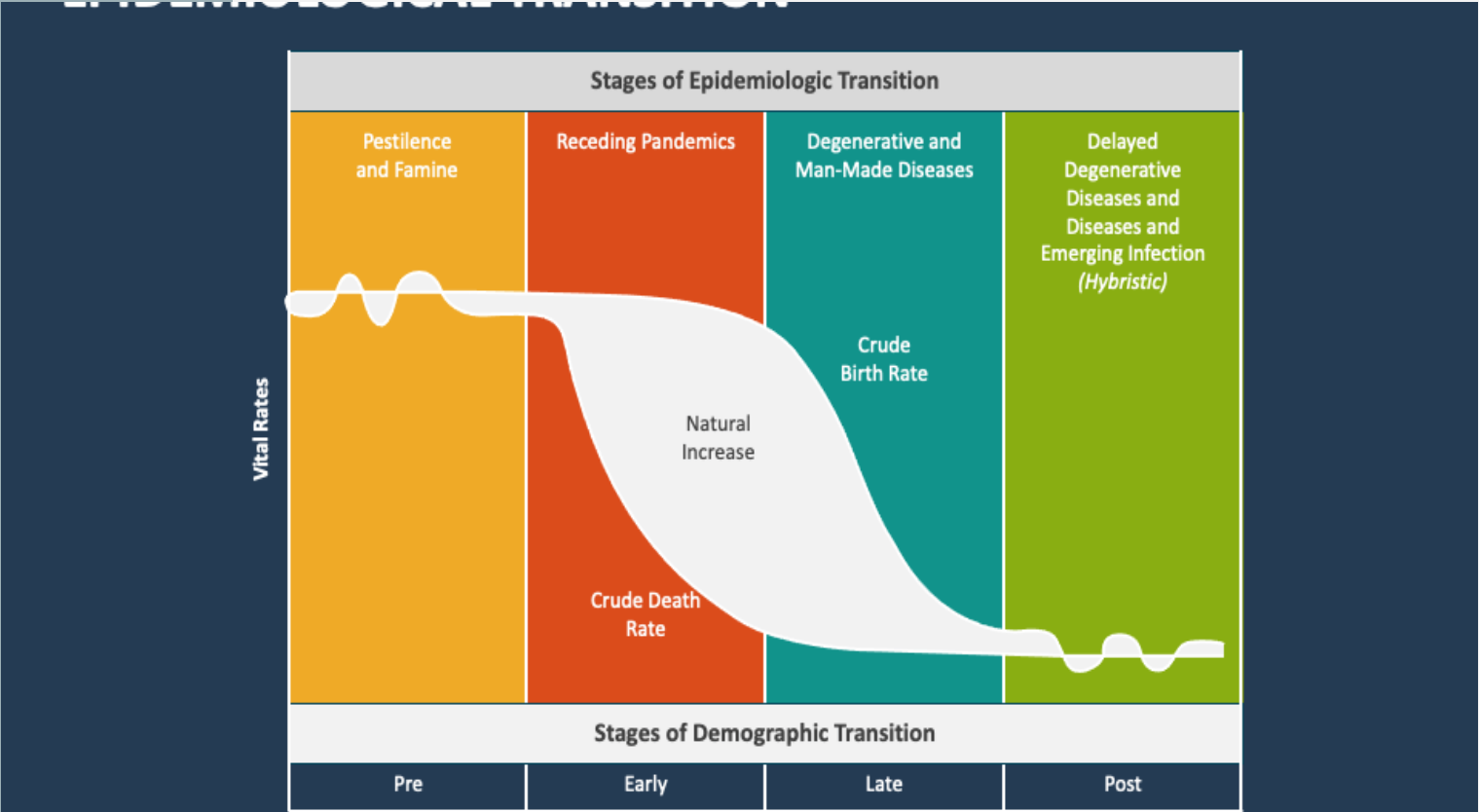
Educational skills → Understandings and Reasoning → Corrective Behavior

EDUCATED BEHAVIOR CHANGE

SICKER SOCIETY



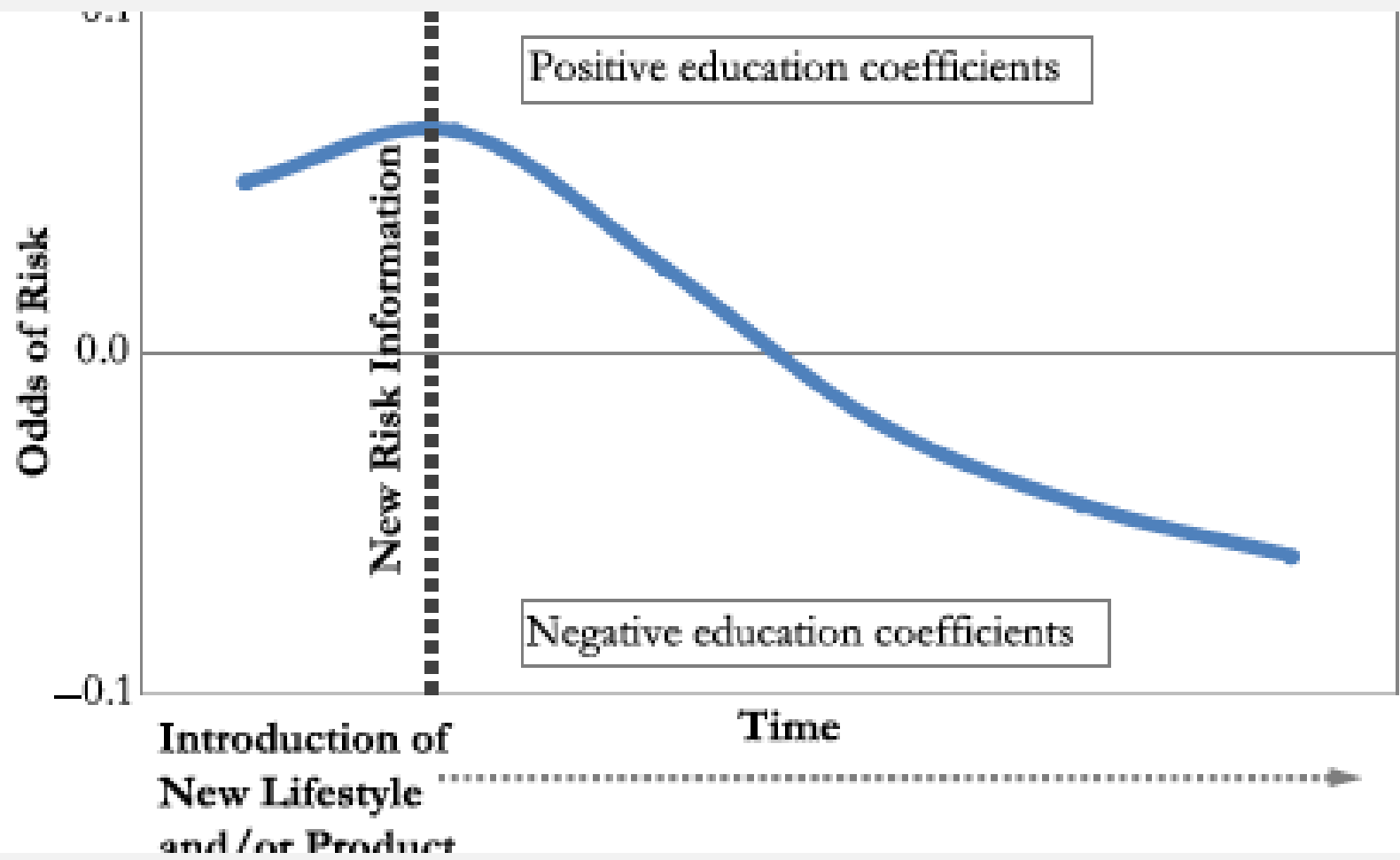
Epidemiological Transition
(Expansive Chronic Disease)



SEXY FADS, SCARY RISKS

Tobacco
Illegal Drugs
Vaping
Fast Foods





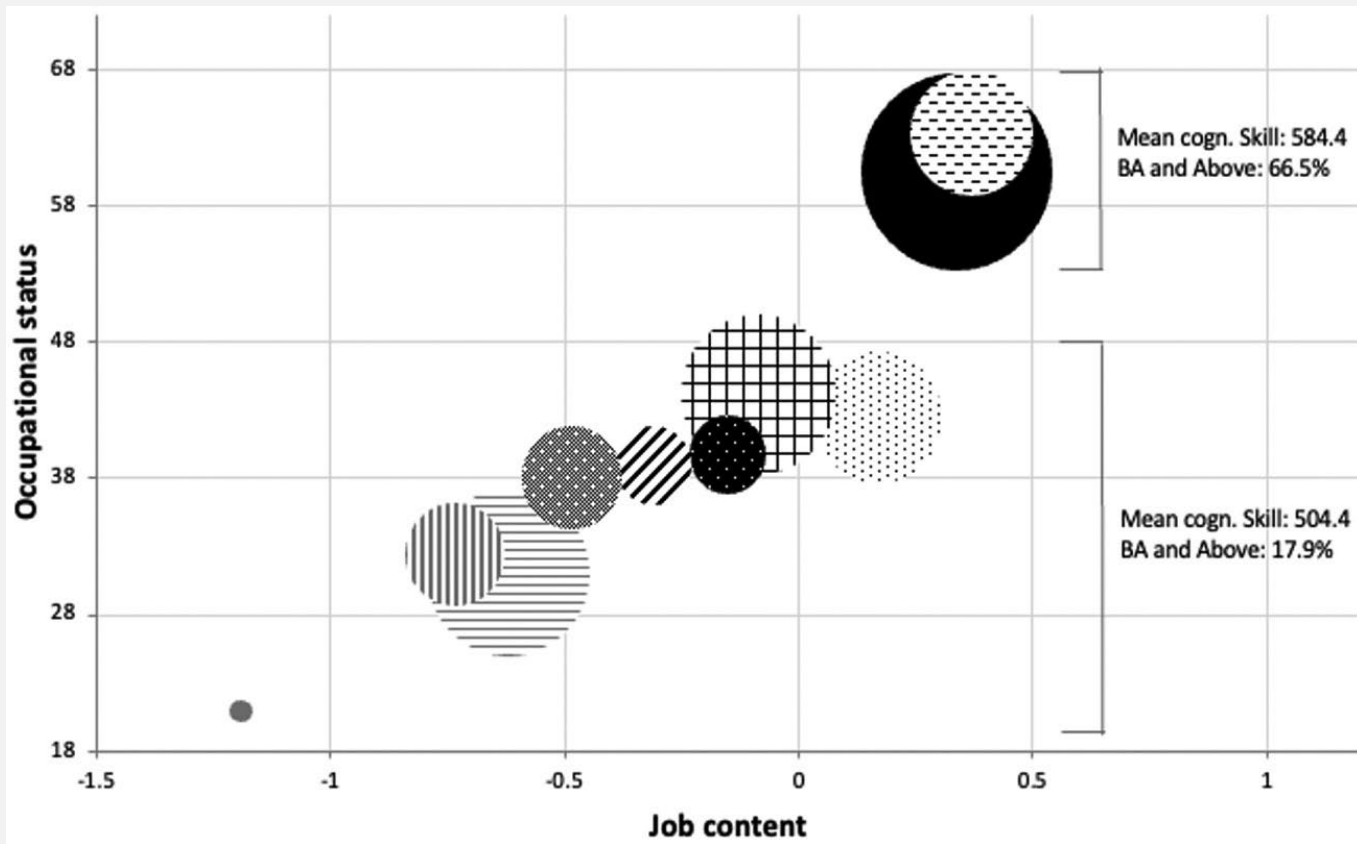


Change Prod. = Capital
Stock + Labor Time + ?

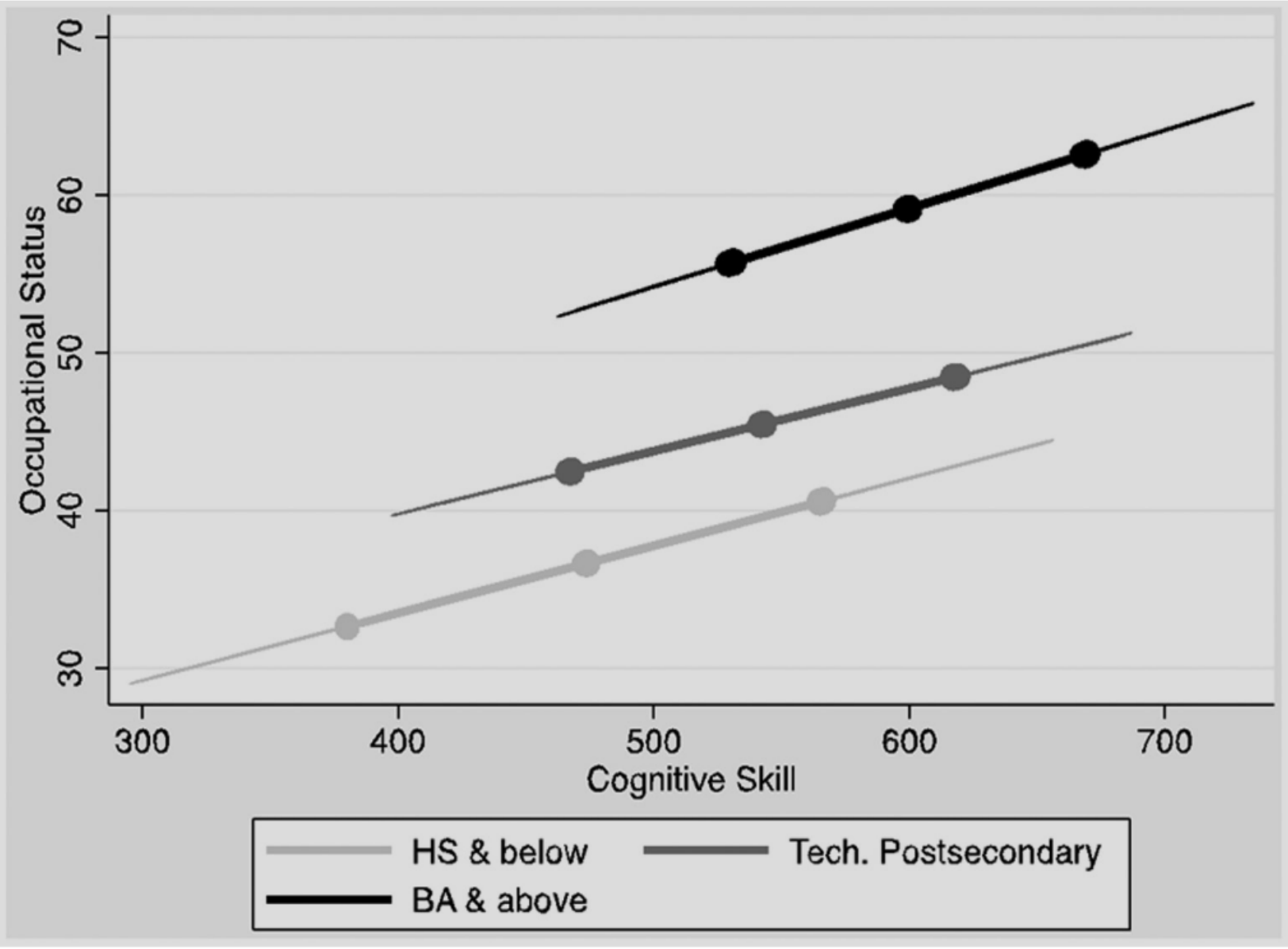
HUMAN CAPITAL MODEL

Change Prod. = Capital
Stock + Labor Time + Ed.

HUMAN CAPITAL MODEL



- Professional and related occupations
- ◌ Management, business, and financial operations
- ▬ Service occupations
- ◌ Sales and related
- ⊢ Office and administrative support
- Farming, fishing, and forestry
- Construction and extraction
- ✓ Installation, maintenance, and repair
- ▮ Production
- ⊠ Transportation and material moving



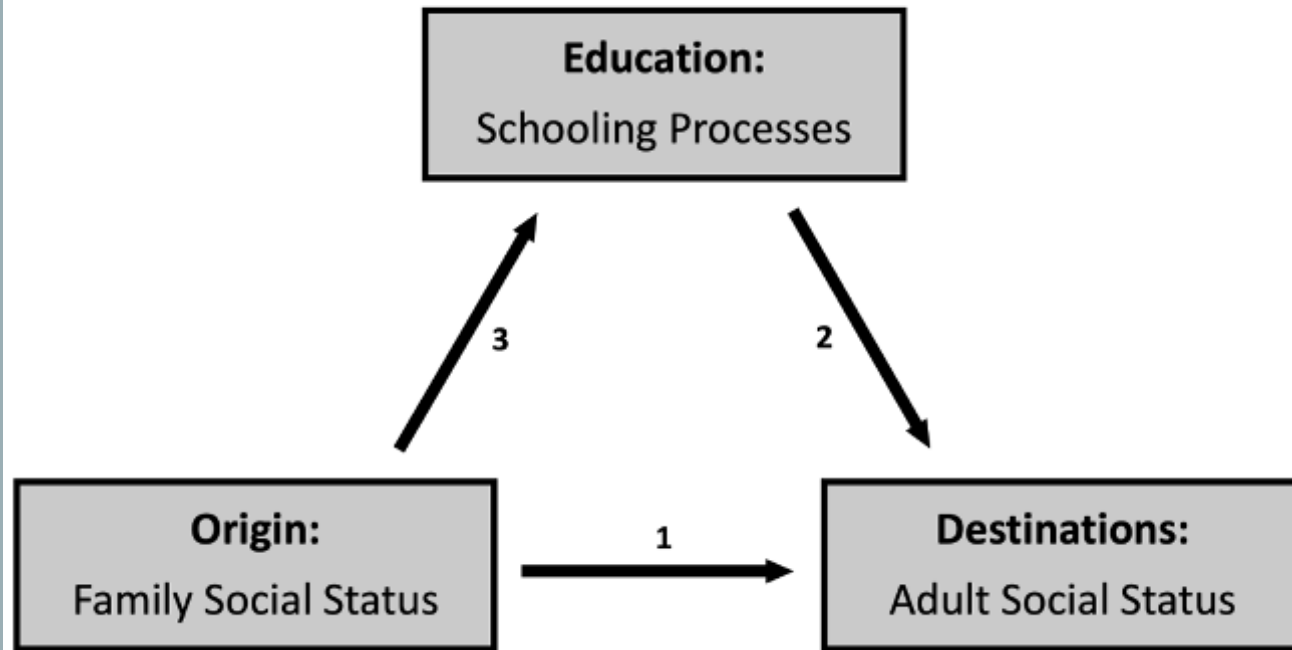
EDUCATED ECONOMY

Occupational Inequalities





CANONICAL MODEL OF
SOCIAL STRATIFICATION
PROCESS

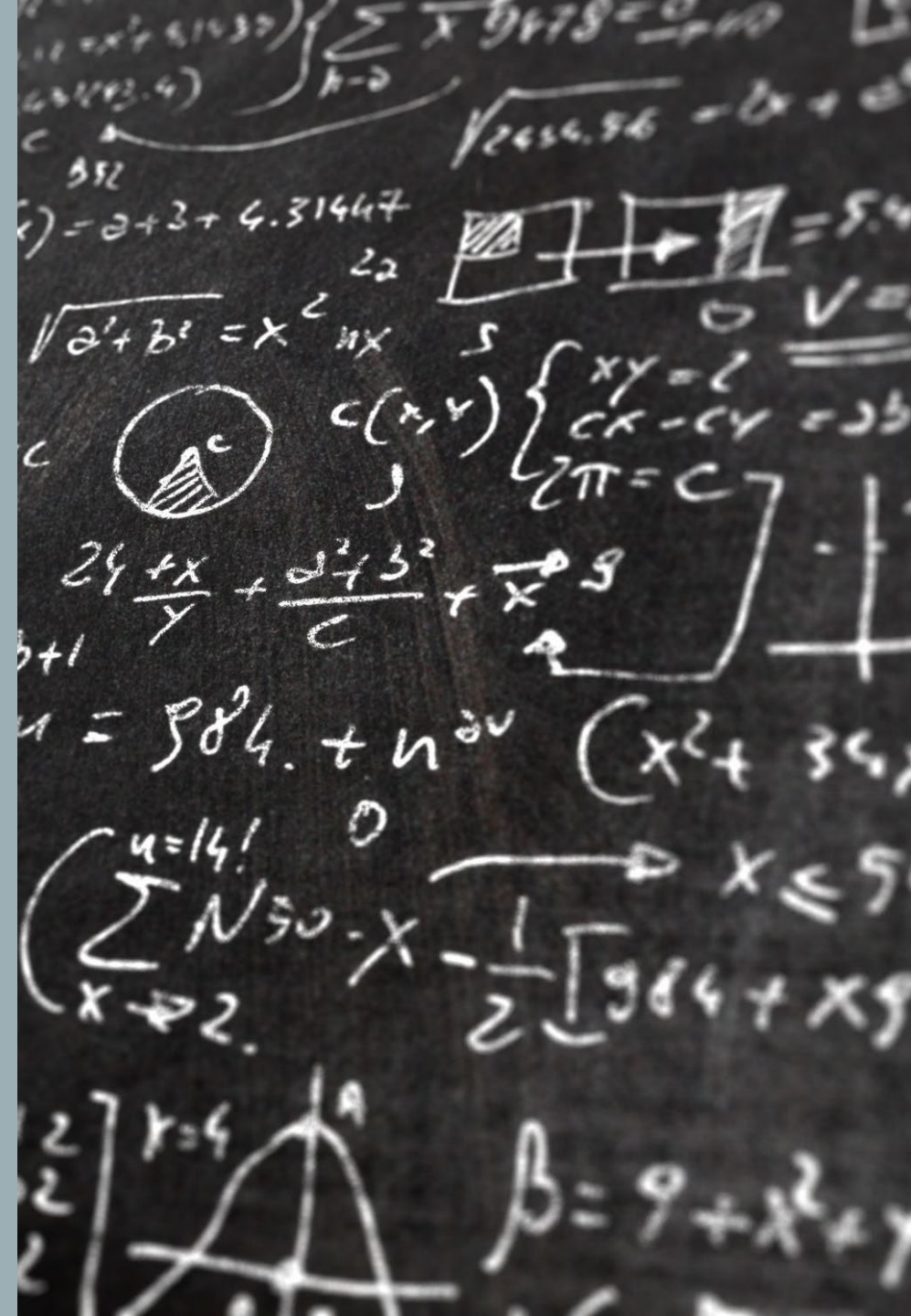


- Prior 1980's
- Effects 1,2,3 strong

- After 1980's
- 1 Lessen Vanishes (BA)
- 2 strengthens, 3?

EDUCATION-BASED CULTURE OF STRATIFICATION

Not Meritocratic or Marxist Reproduction




WINNERS AND LOSERS
EDUCATIONALLY
DEFINED

Political Unrest

Instabilities

Popularism





OTHER
PARADOXES:
FUTURE
SCHOOLED
SOCIETY

- Less Violent Criminals: more Educated Crime (white-collar)
- Educated Consumer: Climate Change
- High-tech Soldier: Deadlier Warfare
- Engaged Citizens: Chaotic Democracies

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