

Intrinsic Motivation via Extrinsic Rewards

James Brown MA Character Education



THE JUBILEE CENTRE FOR CHARACTER & VIRTUES 10th ANNIVERSARY YEAR

Background & Rationale



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Character education intervention

- A new activity designed to help young people develop virtues (Intro to Unit 1; Jubilee Centre, 2022)
- Components of virtue: perception, emotion, desire, motivation, behaviour, style (Kristjánsson, 2017)



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Motivation: intrinsic / extrinsic

Intrinsically motivated behaviours – performed for their inherent satisfactions, e.g. feelings of enjoyment

Extrinsically motivated behaviours – instrumental for some separable outcome, e.g. an external reward (Ryan & Deci, 2000; 2017)

Perceived locus of causality (PLOC): internal for intrinsic motivation; external for extrinsic motivation (de Charms, 1968; Ryan & Deci, 2017)



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Intrinsic motivation and character

- An act is virtuous only if it is chosen for its own sake (Aristotle, 2004; Curren, 2014)
- The goal of character education is for students to internalise values and motivations (Berkowitz & Bustamante, 2013)
- Neo-Aristotelian model: Plan A intrinsic motivation (Jubilee Centre, 2022)
- Intrinsic motivation measures could be meaningfully incorporated into virtue measurement (Wright et al., 2020)

What about extrinsic motivators?



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Recent debate on external rewards

- Pupils (especially younger pupils) may behave in virtuous ways because of the initial promise of a reward, but through the process come to realise the satisfaction associated with it (Watts et al., 2021)
- Rewards often undermine the internalisation of virtues (Berkowitz, 2022)
- Rewards can play a role in internalisation; many schools use them; more research is needed (Watts et al., 2022)



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High stakes

Rewards undermine character development (Berkowitz, 2022)

Many schools use rewards (Watts et al., 2022)

Dilemma for character educationists:

- 1. Denounce rewards and alienate many schools; or
- 2. Permit rewards and dilute character education



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Research to date

- Rewards undermine intrinsic motivation (Deci et al., 1999)
- Rewards can prompt a shift in PLOC from internal to external (Ryan & Deci, 2017)
- Rewards undermine intrinsic motivation to engage in helping in young children (Warneken & Tomasello, 2008)
- Negative effects can be contagious (Gubler et al., 2016)
- Caveat



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A gap?

Rewards can have a negative effect on those who are intrinsically motivated

What about those who are *not* intrinsically motivated?



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Preliminary theory and hypothesis

- Rewards might have positive effects when children's motivation is very low (Warneken & Tomasello, 2008)
- The attractiveness of some activities only becomes apparent after prolonged engagement with them (Lepper et al., 1973)
- If PLOC can shift in one direction, why not the other?
- The inherent satisfaction of a virtuous activity might prompt an internal shift in PLOC in those who are extrinsically motivated
- Rewards as a lure



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Intervention Design



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Barr's Hill School (Coventry, UK)

Inner city school operating in a challenging social context
 PRIDE: Proactive, Responsible, Inquisitive, Determined, Engaged
 Responsible: honest, kind, considerate, brave, respect, gratitude
 PRIDE points





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A virtuous activity

- Visiting a care home and spending time with residents
- A civic virtue, viz. service a commitment to and working with others (Jubilee Centre, 2022)
- Double benefit: students develop character and benefit the community (Arthur et al., 2017)
- East Norfolk Sixth Form College students volunteer at a local care home (Arthur et al., 2017)



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A virtuous activity (specifics)

- Lammas House Residential Care Home, Coventry
- Minibus
- After school
- 30 minutes
- Once a week
- Image: Second Second



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Control activity

- Morally neutral busywork
- Maths activity
- Ran concurrently



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Excluding intrinsically motivated students

- Recruit from Year 7 "younger pupils" (Watts et al., 2021)
- Explain virtuous activity [A1] to students
- So, who would like to go?"
- Students who volunteer at this stage would be excluded from the study
- Repeat for control activity [A2]



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Recruiting extrinsically motivated students

- Oh, I forgot to mention, each time you engage in one of these activities [A1 or A2], you will be awarded 50 PRIDE points..."
- "… on the condition that you engage on all six occasions."

Recruit 32 students



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Evaluation



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Randomised controlled trial

- The "gold standard" (Harrison et al., 2016)
- Need greater understanding (Arthur et al., 2014b)
- Increasingly required by funders (Cook, 2012)
- Present study: students <u>randomly</u> assigned to A1 (intervention) or A2 (<u>control</u>) 16 students in each group



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Measurement and analysis

- DV: intrinsic motivation measured via the number of times students engage in A1 or A2 during 6-week free-choice period (Deci, 1971; Warneken & Tomasello, 2008; Ryan & Deci, 2017)
- IV: activity A1 or A2
- Between-subjects design
- Independent t-test



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Ethics

Approval by UOB Ethics Committee

Permission from headteacher and care home

Letters to parents

Include data based on consent sought afterwards

Students can withdraw at any time

Control group given opportunity to visit care home after study

Effect on intrinsically motivated students?



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Strengths

- Motivation subsumes most other components of virtue
- No reports
- Action, not theory
- Little risk of contamination
- Students randomly assigned
- Time frame



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Limitations

Inherent satisfaction of virtuous activity could be crowded out
Small sample size



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Next steps

- Bigger sample size
- Minimally sufficient rewards (Ryan & Deci, 2017)
- Ouration/intensity
- Reflection (Arthur et al., 2014b)
- Other virtues



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