

# Practical Applications of VR in Schools

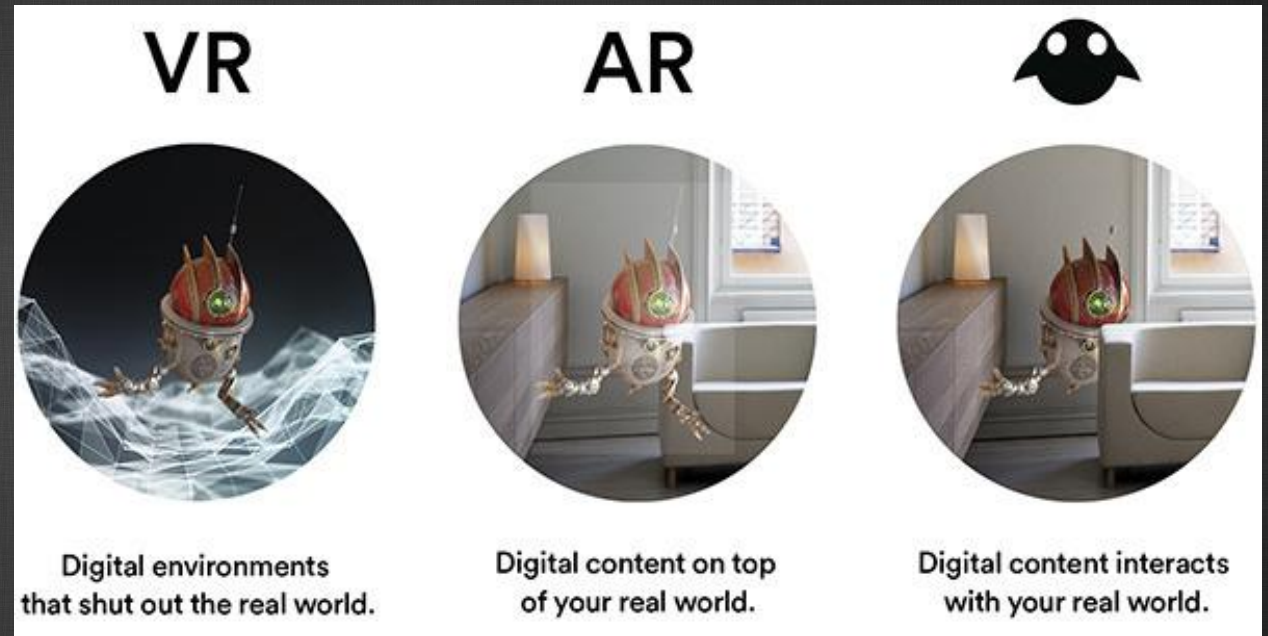
*---Stories from the Ground*

Alvin. Lee

# A. About VR

## What (is VR)?

- VR: Virtual Reality
- AR: Augmented Reality
- MR: Mixed Reality



# A. About VR

## Why (now)?

- Speed of Computing
- Cost
- Commercially Available VR



# A. About VR

## Who (will benefit)?

- Games
- (Adult) Entertainment
- Real Estate
- Automotive
- Art
- Education
- Military
- Media / News
- Medicine
- ?



# A. About VR

## How (will we benefit)?

- 10 times the efficiency
- 1/10 the cost
- A Whole New world



# A. About VR

## When (will it happen)?

- USD80b by 2025 (Goldman Sachs)
  - (USD 750m in Education)
- 136m headsets by 2025, (Greenlight/Road to VR)
  - 37m headsets by end 2020
- Bigger than mobile?

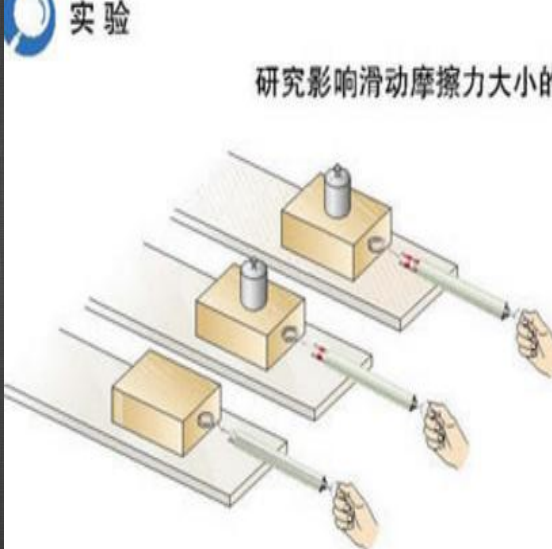
## B. Challenges we face in teaching Physics in School

- Abstract Concepts
- Not all students have strong spatial awareness



**实验**

### 研究影响滑动摩擦力大小的因素



当你推箱子时，箱子越重，推起来越费力；地面越粗糙，推起来越费力。看起来，影响滑动摩擦力大小的因素可能有：

- 接触面所受的压力
- 接触面的粗糙程度
- .....

图8.3-3 研究影响滑动摩擦力大小的因素

可以通过图8.3-3所示的实验验证你的猜想。

# C. Current Teaching Methods

- Repetition
- Remedial lessons
- Thought experiments and illustrations





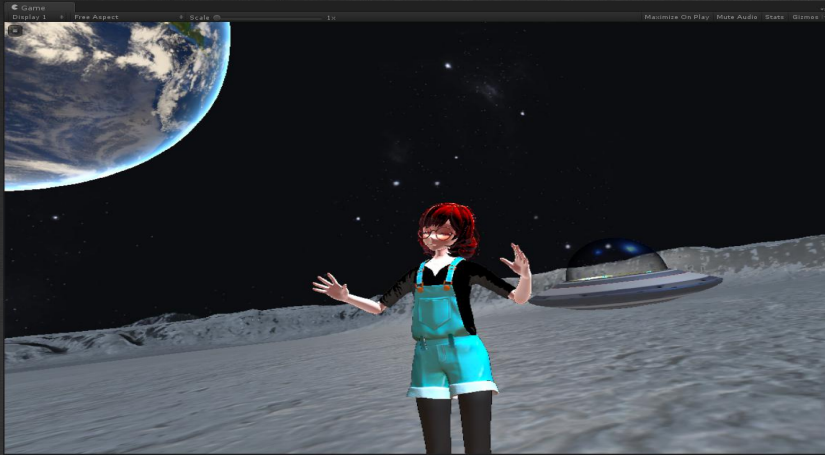
## D. Using VR as an alternative!

- Use of VR to make abstract “REAL”
- Teachers + Game Designers + Researchers
- Strong gamification elements



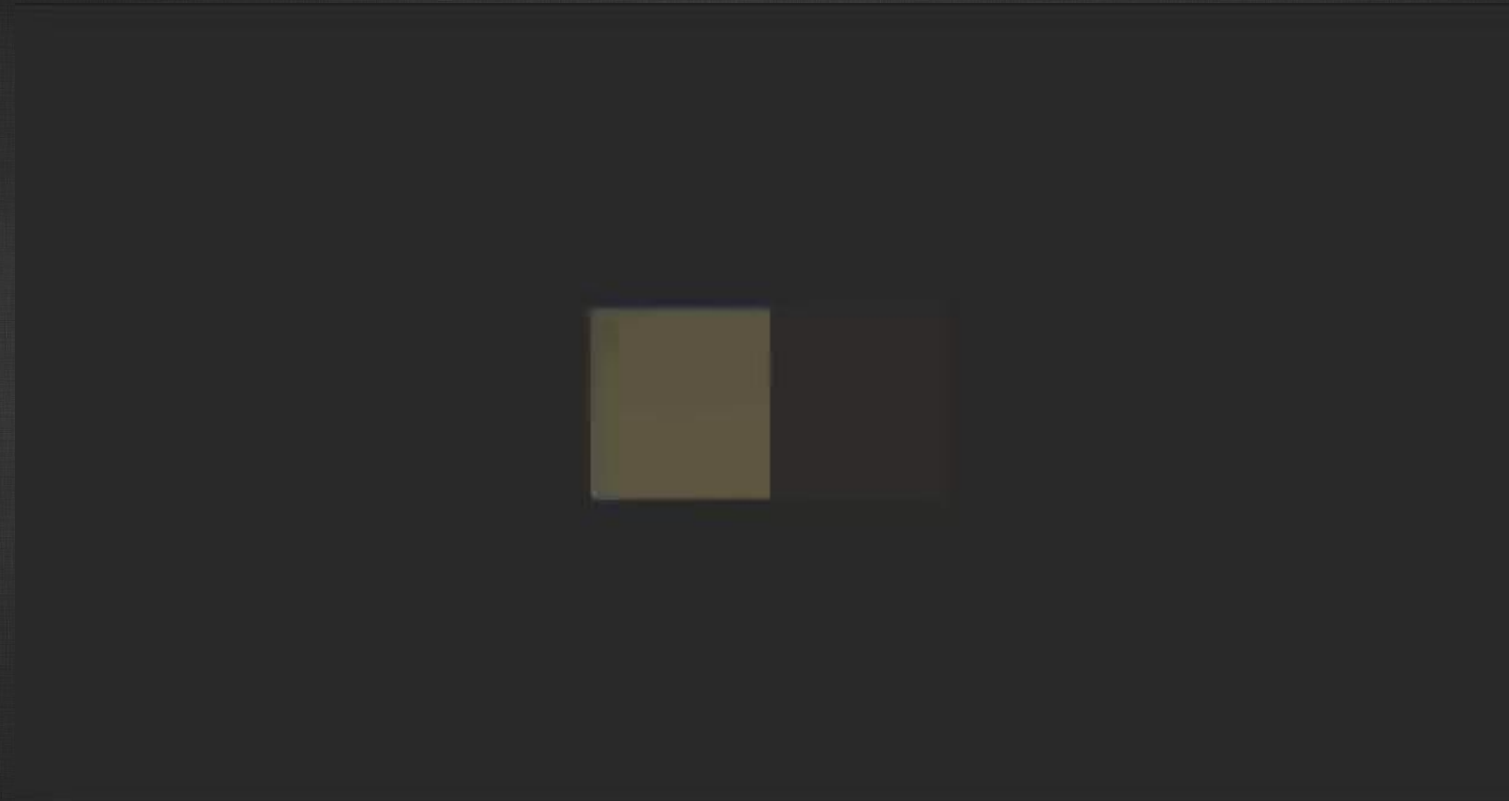
# D. Using VR as an alternative!

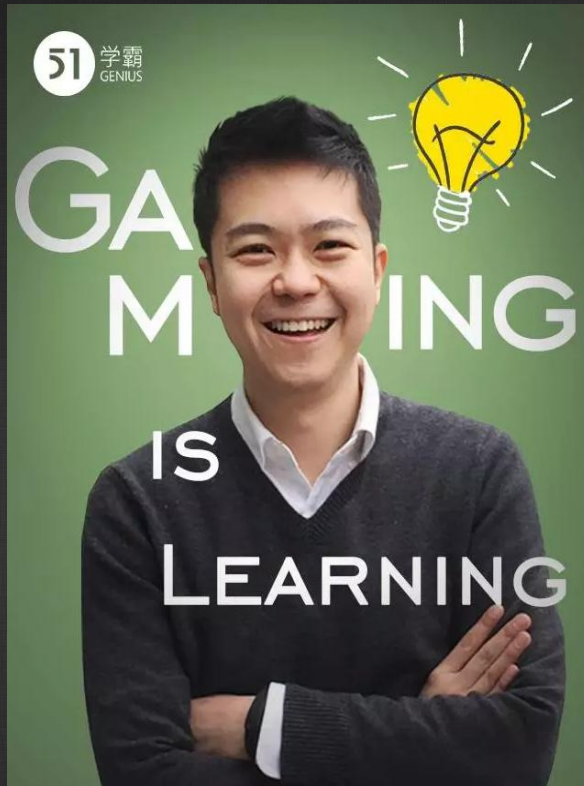
Use of VR to touch the “WORLD”



## *D. Using VR as an alternative!*

Video Trailer





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*Thank you*