Playful Learning Part 2

Finding The Best Classroom Games

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bit.ly/edgameratice

LEARNING games NETWORK

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The power of game-based learning

Let’s play!

Kahoot!

Game pin

Enter

Games and Learning

What is it?

Definition:

“Game-based learning (GBL) is a form of learning where students may learn by trial and error, by role-playing and by treating a certain topic not as ‘content’ but as a set of rules, or a system of choices and consequences.”

futurelab

Why games?

Games are ideal learning environments

If you attended part 1,
then you know games
can bring superpowers
to your classroom.

What are the obstacles?

- Testing
- Federal and State initiatives
- Technology
- More students and less resources
- More to do and less time

Using games in the classroom

Allow the game to be played outside of school.

Use games as preparation for future learning.

Let the students demonstrate expertise.

Use games as pre-assessments.

Be clear about the learning objectives.

Identify the precise role to be played by using the game in achieving the learning goals.

Use the parts of the game that work for you.

Allow sufficient time to become familiar with the game—for you and your students.

Build in time for review and reflection.

Gamification

game-based learning

Adding game mechanics to encourage learning

80%
90%

Selecting a game:

- suitable for your students?
- what elements of the game support your educational goals?
- would your students be motivated to use it?

Types of games when searching-

- COTS (Commercial Off-The-Shelf)
- Educational

- Long form
- Short form

Short-Form Games

- fit into a single class period
- typically focus on a specific concept or skill

Long-Form Games

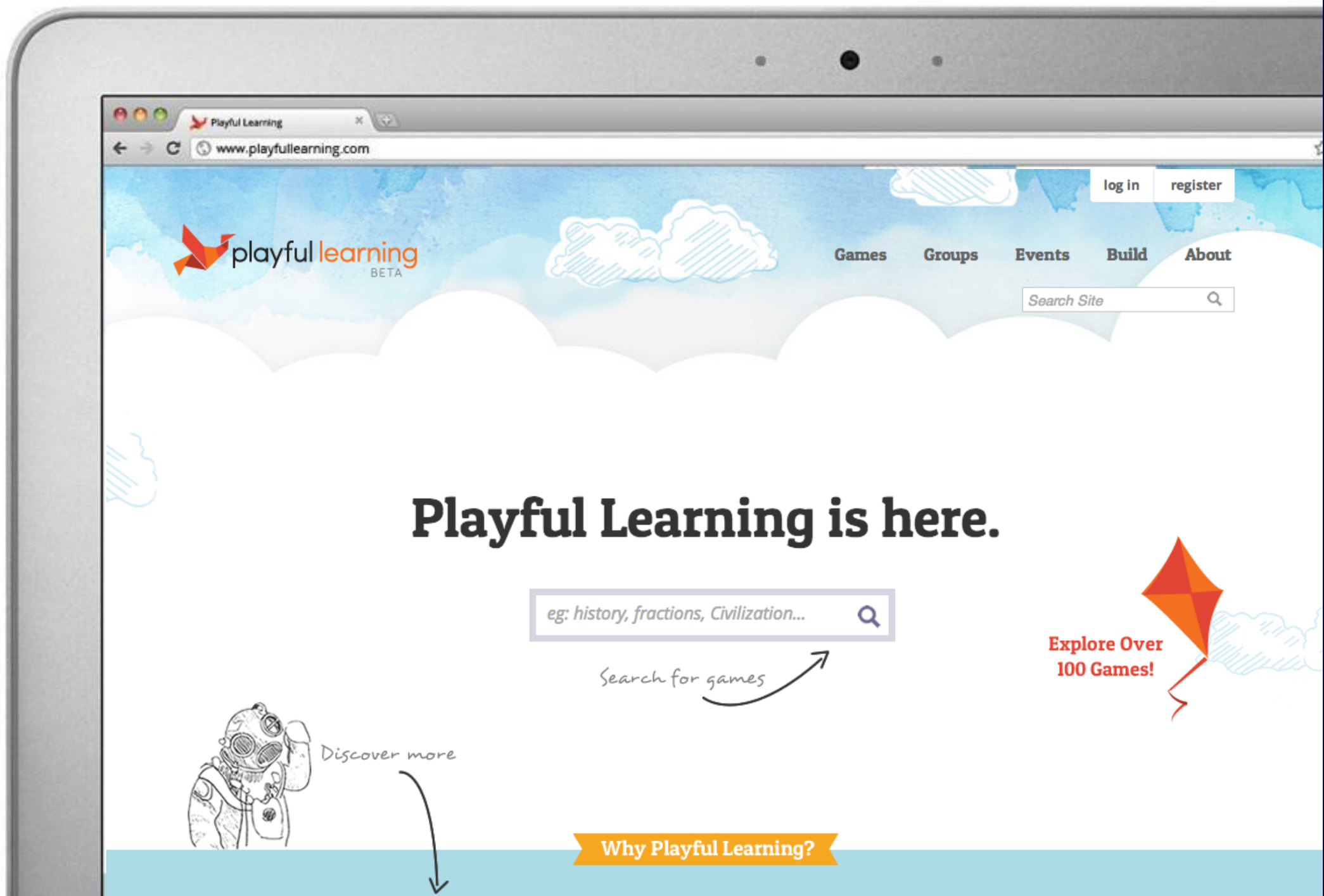
- extend to multiple sessions or even weeks
- focus on developing concepts and 21st century skills
- performing better than lectures...

Long-form games have a better chance to teach many goals

Resources

playful learning

Platform



beta.

playful learning

.com

@playfullearn

HELP US DESIGN

PLAYFUL LEARNING

EXPLORE

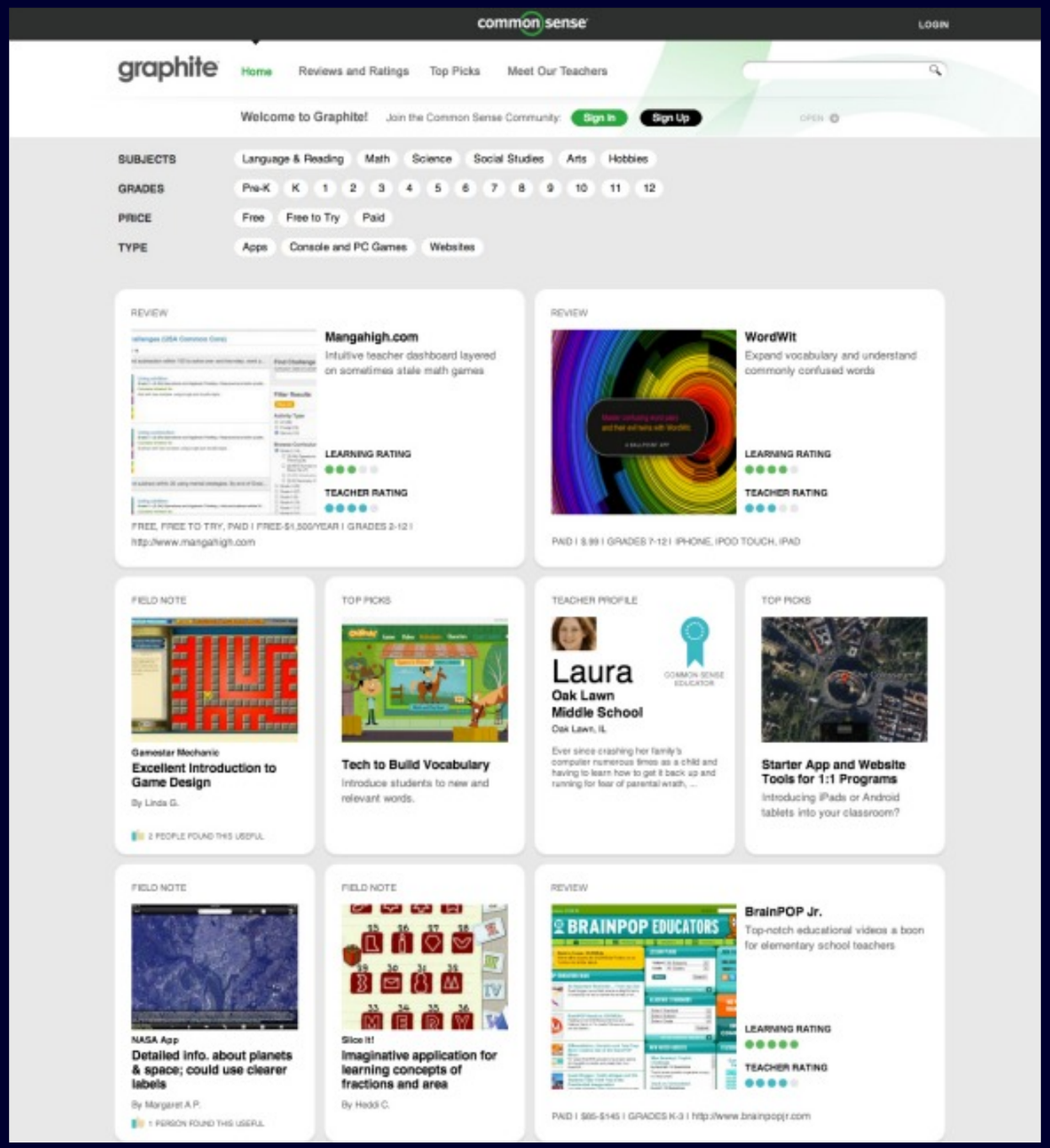
DISCOVER

CREATE

SHARE

Platform

Teachers,
meet Graphite.
Find the best apps, games, websites, and digital curricula rated for the classroom
From
common sense
media


common sense
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Reviews and Ratings
Top Picks
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Arts
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K
1
2
3
4
5
6
7
8
9
10
11
12
PRICE
Free
Free to Try
Paid
TYPE
Apps
Console and PC Games
Websites
REVIEW
Mangahigh.com
Intuitive teacher dashboard layered on sometimes stale math games
LEARNING RATING
TEACHER RATING
FREE, FREE TO TRY, PAID | FREE-$1,500/YEAR | GRADES 2-12 |
http://www.mangahigh.com
REVIEW
WordWit
Expand vocabulary and understand commonly confused words
LEARNING RATING
TEACHER RATING
PAID | $.99 | GRADES 7-12 | IPHONE, IPOD TOUCH, IPAD
FIELD NOTE
Gamestar Mechanic
Excellent Introduction to Game Design
By Linda G.
2 PEOPLE FOUND THIS USEFUL
TOP PICKS
Tech to Build Vocabulary
Introduce students to new and relevant words.
TEACHER PROFILE
Laura
Oak Lawn Middle School
Oak Lawn, IL
Ever since crashing her family's computer numerous times as a child and having to learn how to get it back up and running for fear of parental wrath, ...
COMMON SENSE EDUCATOR
TOP PICKS
Starter App and Website Tools for 1:1 Programs
Introducing iPads or Android tablets into your classroom?
FIELD NOTE
NASA App
Detailed info. about planets & space; could use clearer labels
By Margaret A P.
1 PERSON FOUND THIS USEFUL
FIELD NOTE
Slice It!
Imaginative application for learning concepts of fractions and area
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BrainPOP Jr.
Top-notch educational videos a boon for elementary school teachers
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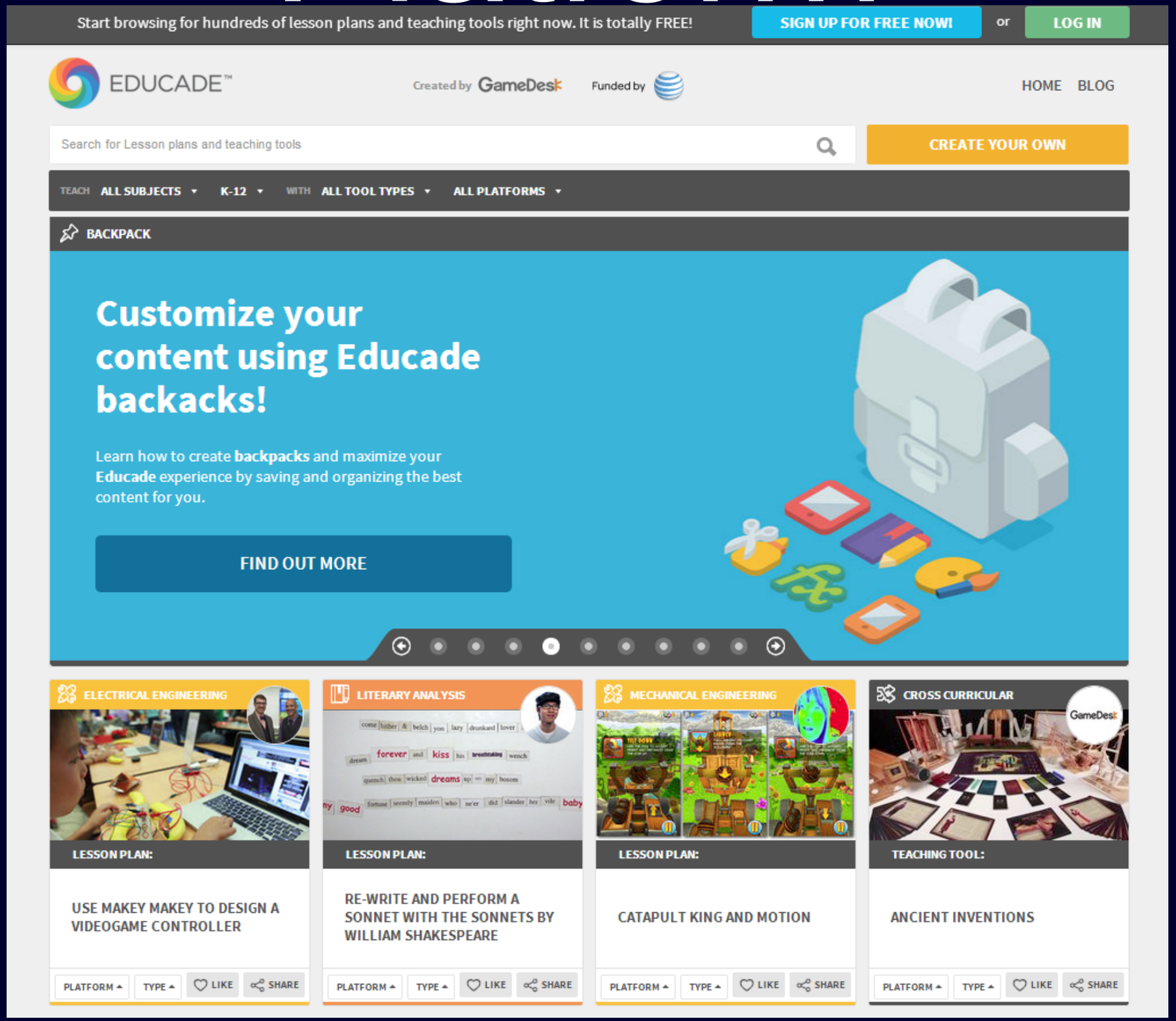
PAID | $65-$145 | GRADES K-3 | http://www.brainpopjr.com

Platform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SHARE
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LESSON PLAN:
RE-WRITE AND PERFORM A SONNET WITH THE SONNETS BY WILLIAM SHAKESPEARE
PLATFORM
TYPE
LIKE
SHARE
MECHANICAL ENGINEERING
LESSON PLAN:
CATAPULT KING AND MOTION
PLATFORM
TYPE
LIKE
SHARE
CROSS CURRICULAR
TEACHING TOOL:
ANCIENT INVENTIONS
PLATFORM
TYPE
LIKE
SHARE

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Genres

- Simulation
- Creation
- Puzzle/Strategy
- Drill and Kill
- Sandbox (Open World)
- Tabletop (Board, Card, and Role-Playing)
- RPG Digital (Role-Playing Game)
- Many more….

Sid Meier's Civilization IV

simulation

Civilization Chart Pg.1

Civilization _____

Culture				
Science & Math		**National & World Wonders**	**Arts, Lit., & Leisure**	**Religions (Belief Systems)**

Civics				
Government	**Religion**	**Economic**	**Labor**	**Legal**

Civilization Chart Pg. 2

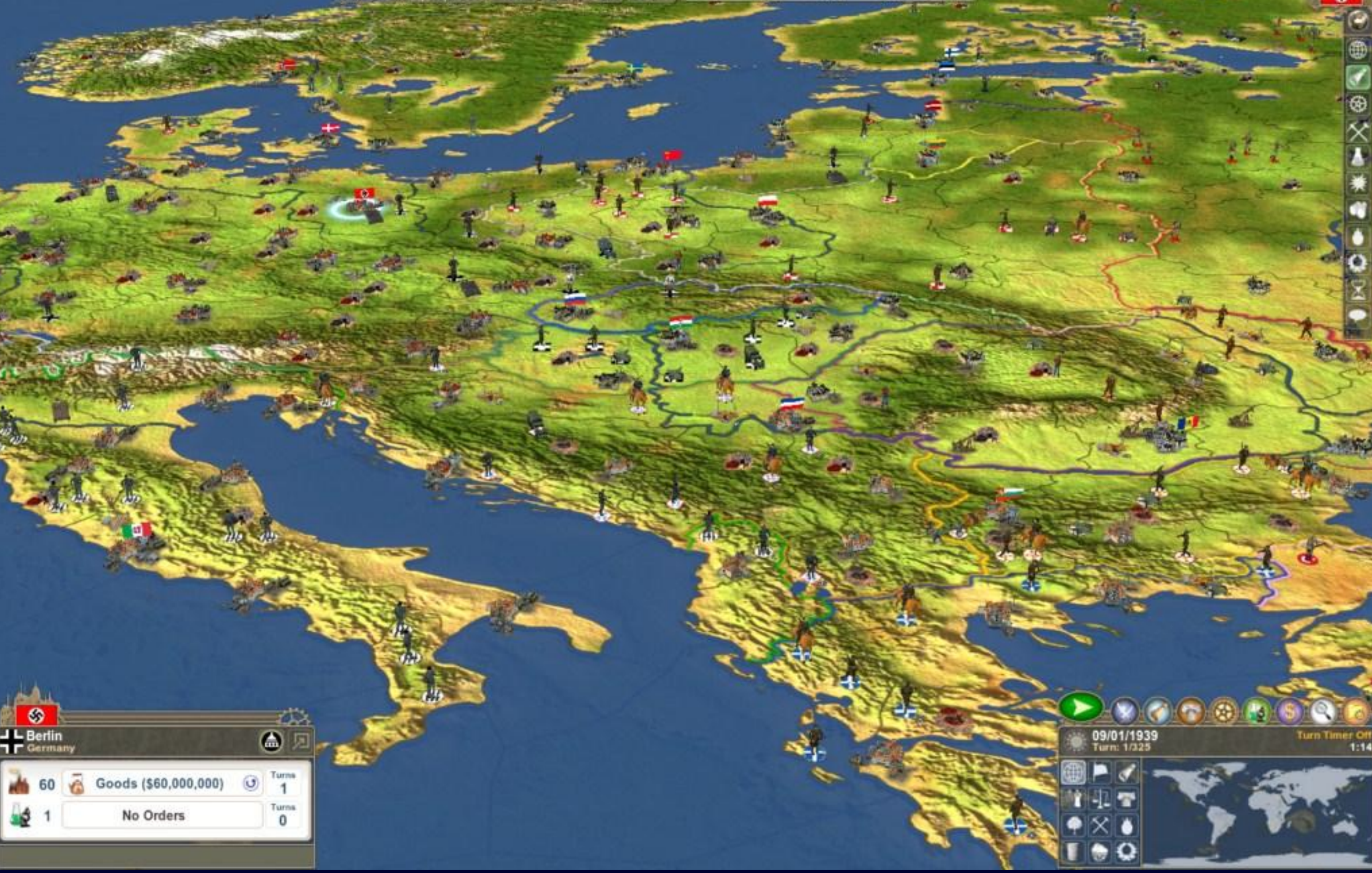
Civilization Worksheet (Page 2)

People							
Artist		Religious		Merchant		Scientist	

People					
Military		Engineer		Leader	

Geography			
Terrain	Resources		Climate

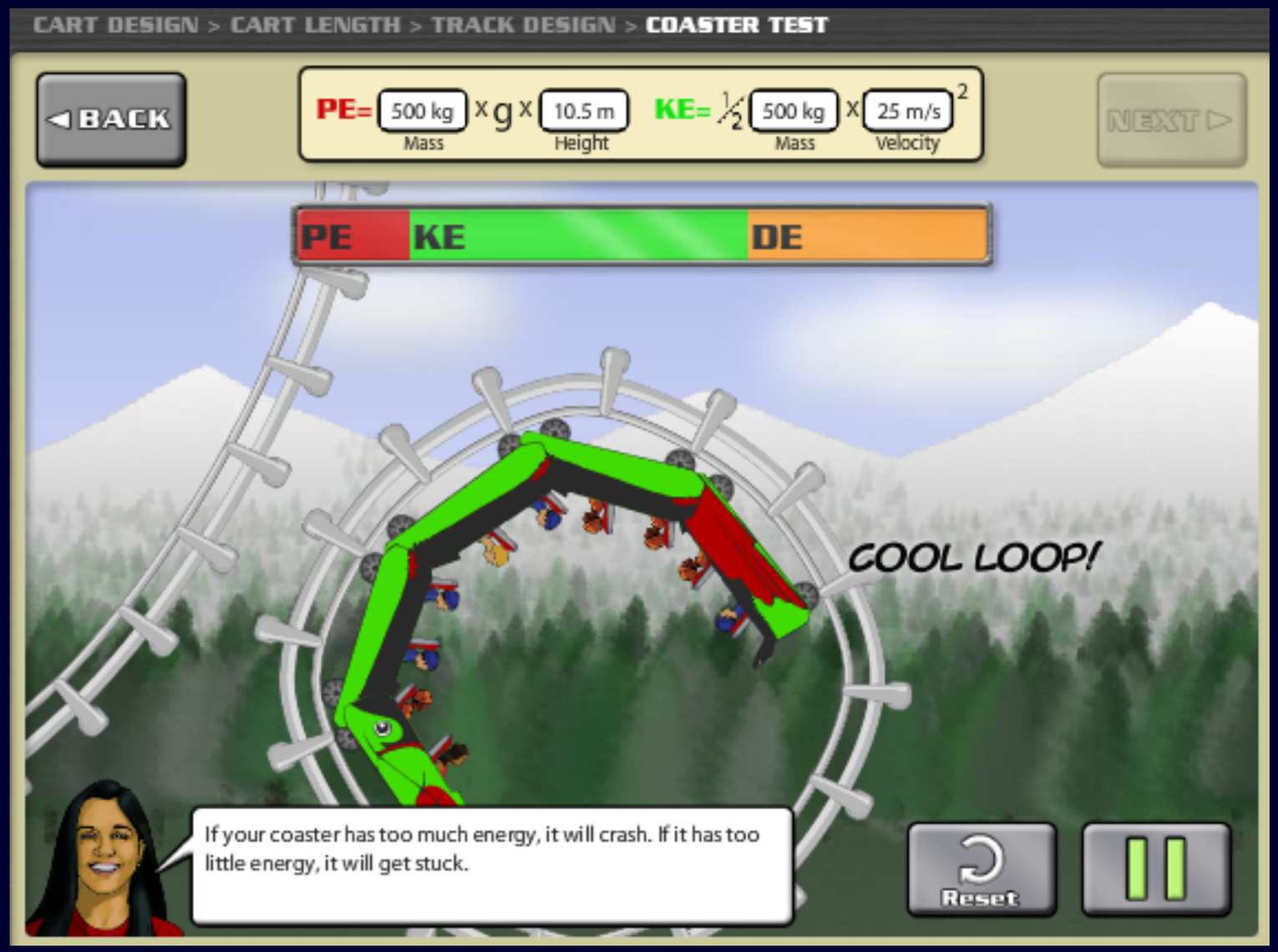
simulation/strategy



simulation/strategy

simulation

Brain POP®

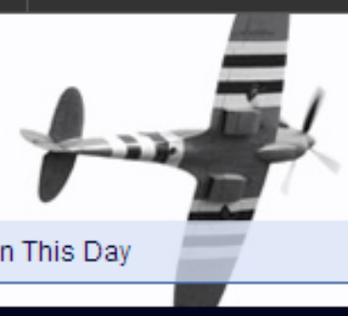


simulation

www.icivics.org

simulation/rpg

History



Mummy Maker

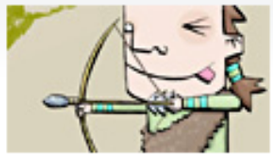
Enter the embalmer's workshop, where you are to prepare the body of Ramose, officer to the king, for burial.The chief embalmer, Kha, will be watching your work closely.

Complete your task perfectly, or he will be denied paradise.

Launch the game

< More Egyptians

Hands on History: Ancient Britain



Travel back in time to **Ancient Britain** and create your own stone circle.

Hands on History: Roman Britain

Eric (voiced by Daniel Roche) visits **Roman Britain**, where he lives a life of privilege.

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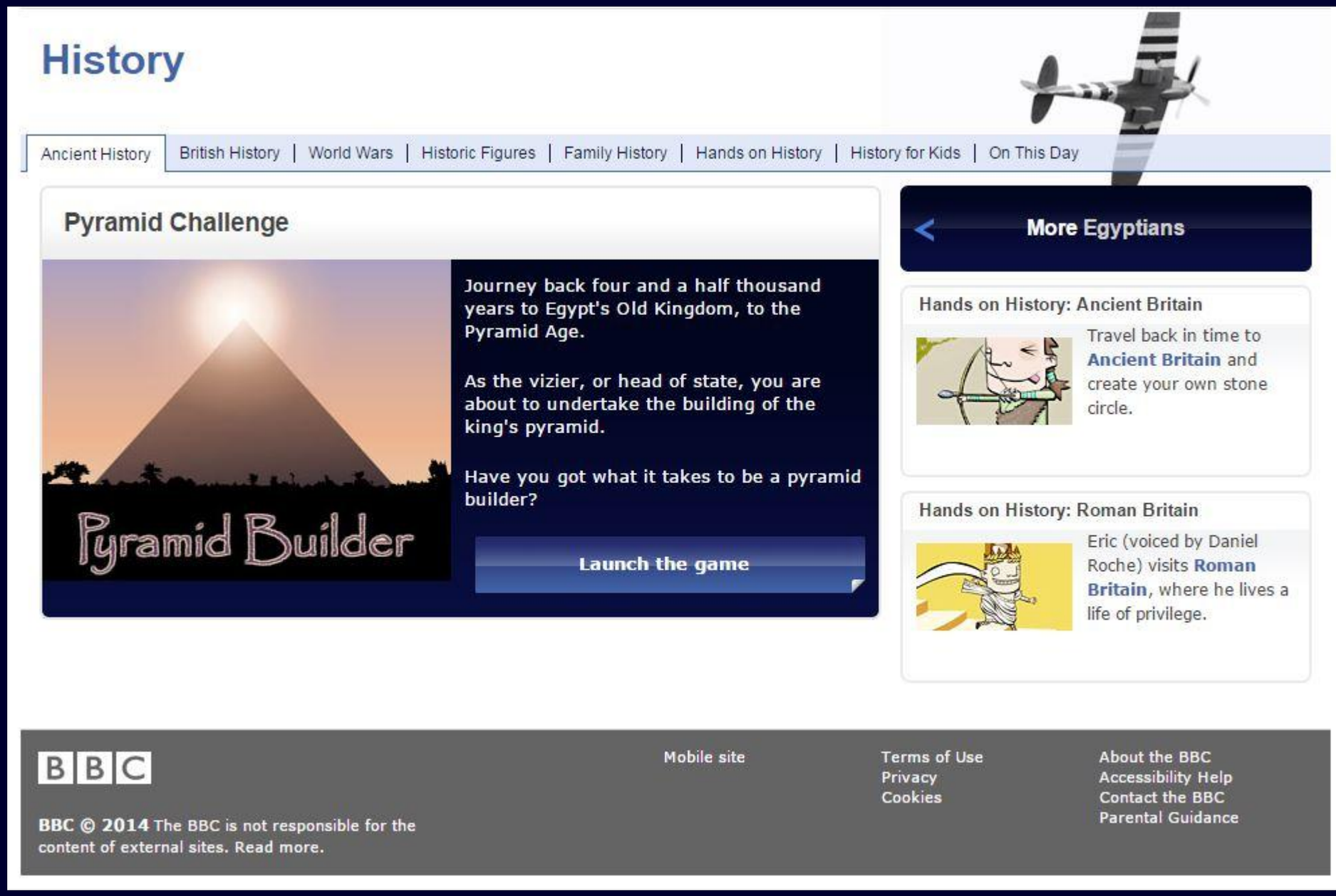
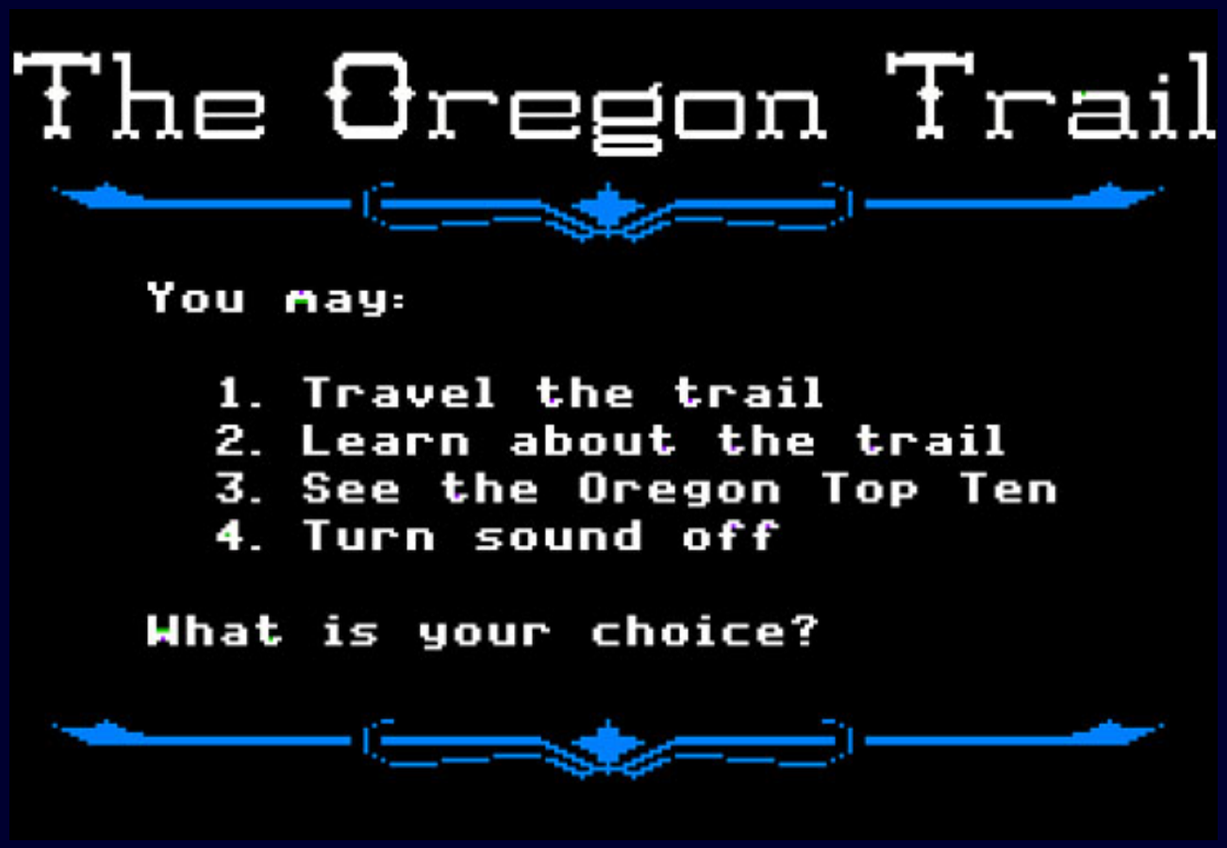
simulation



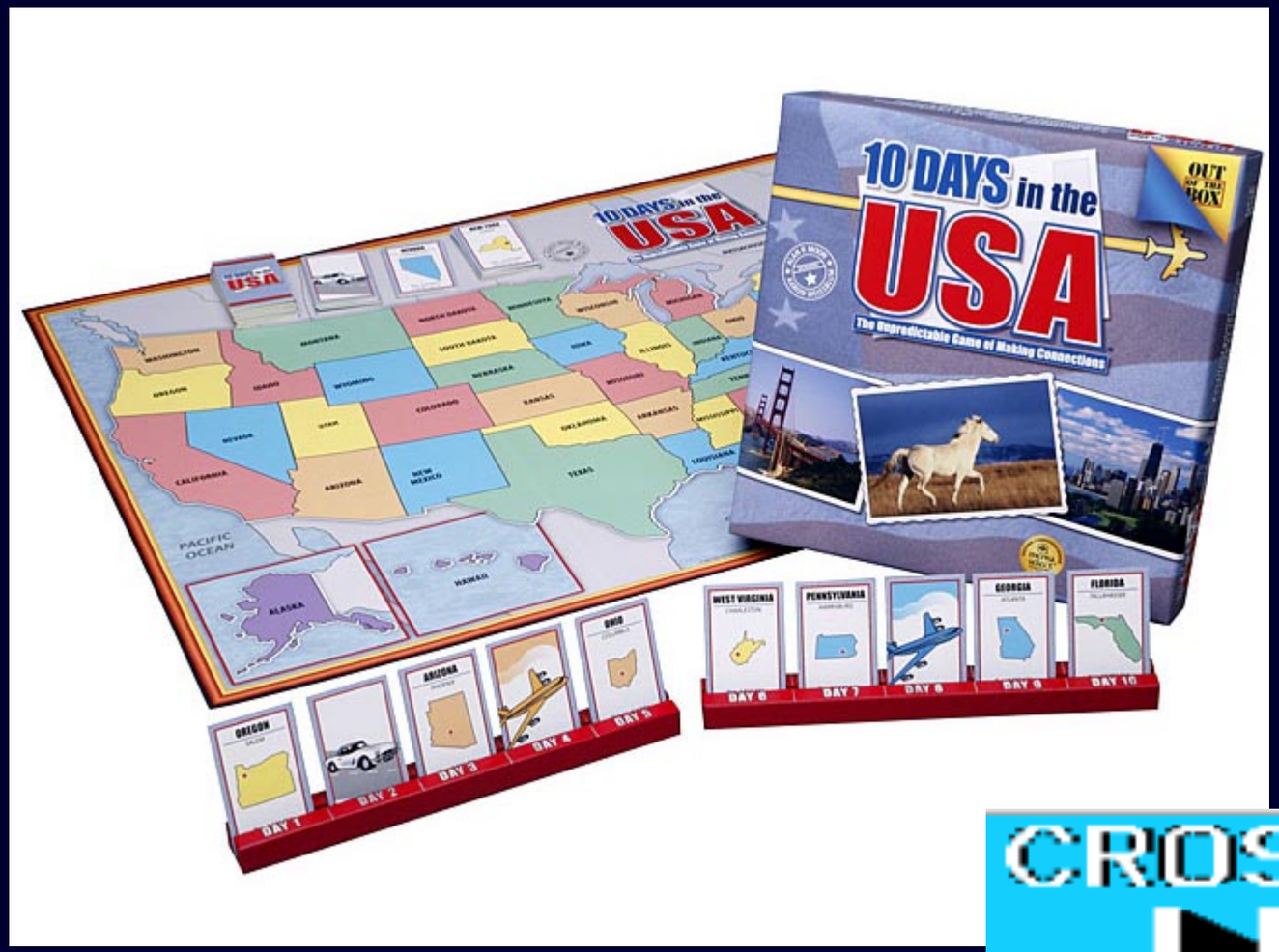
Pyramid Challenge simulation


The Oregon Trail
You may:
1. Travel the trail
2. Learn about the trail
3. See the Oregon Top Ten
4. Turn sound off
What is your choice?

Going back to 1848...

Nicole has dysentery.
Date: June 30, 1848
Weather: hot
Health: poor
Food: 242 pounds
Next landmark: 41 miles
Miles traveled: 948 miles

simulation


10 DAYS in the USA
OUT OF THE BOX
The Unpredictable Game of Making Connections
PACIFIC OCEAN
ALASKA
HAWAII
OREGON
ARIZONA
OHIO
WEST VIRGINIA
PENNSYLVANIA
GEORGIA
FLORIDA
DAY 1
DAY 2
DAY 3
DAY 4
DAY 5
DAY 6
DAY 7
DAY 8
DAY 9
DAY 10

CROSSCOUNTRY
USA
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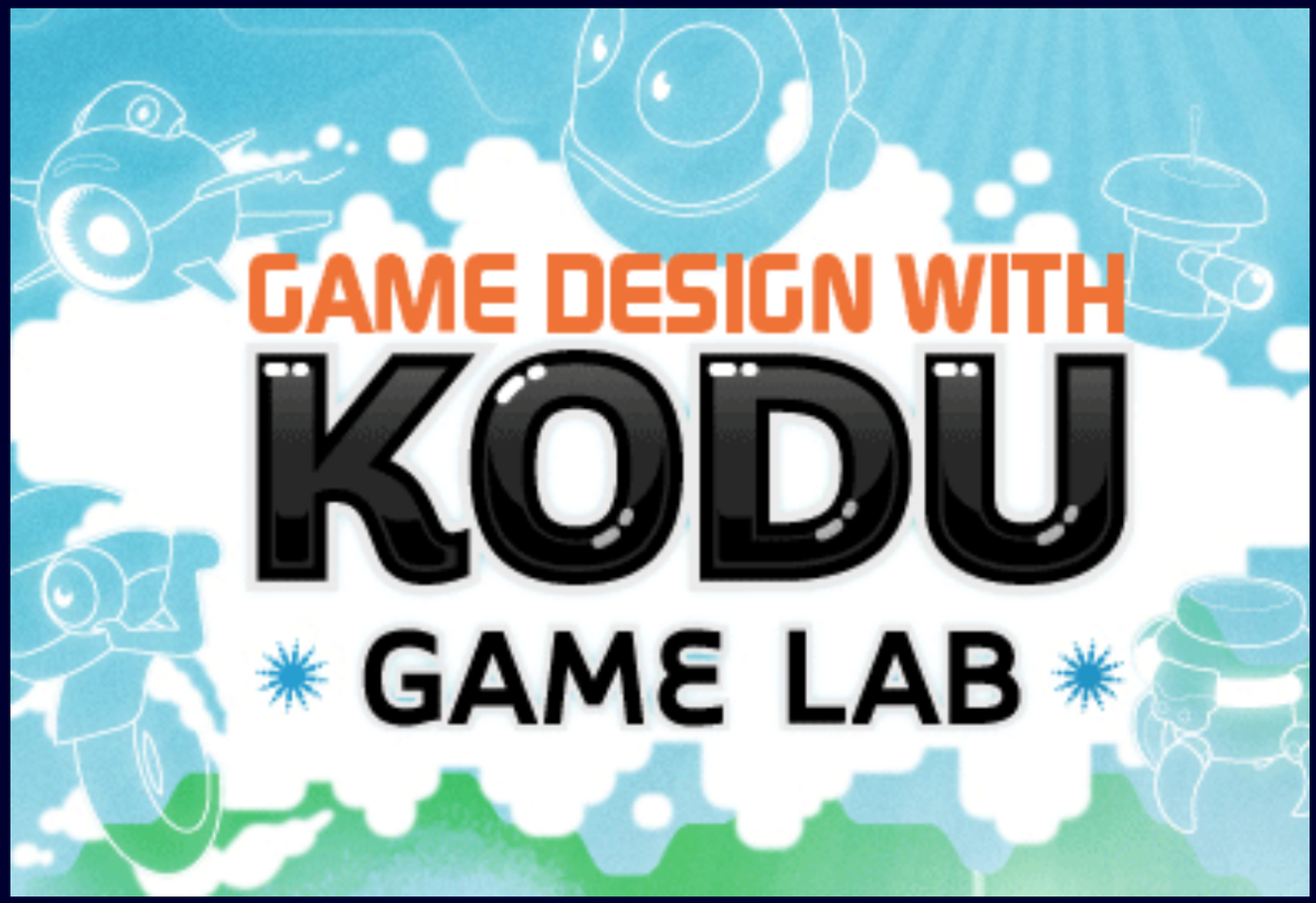
Limited
by Dave Vincent

simulation

ethical thinking

QUANDARY



creation

GameMaker: Studio

GameMaker: Studio caters to entry-level novices and seasoned game development professionals equally, allowing them to create cross-platform games in record time and at a fraction of the cost!

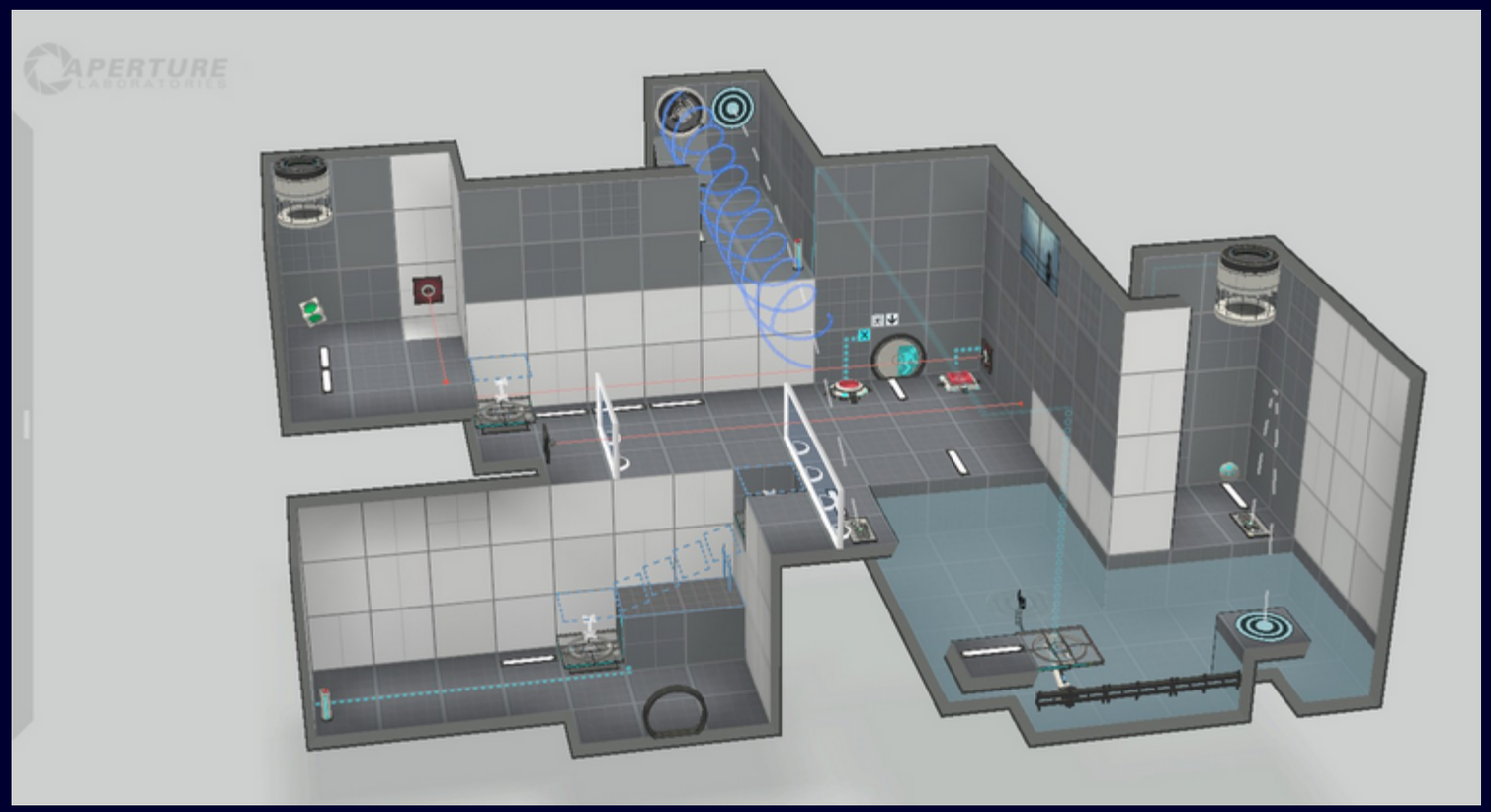
In addition to making games development 80 percent faster than coding for native languages, developers can create fully functional prototypes in just a few hours, and a full game in just a matter of weeks.

Download FREE Now

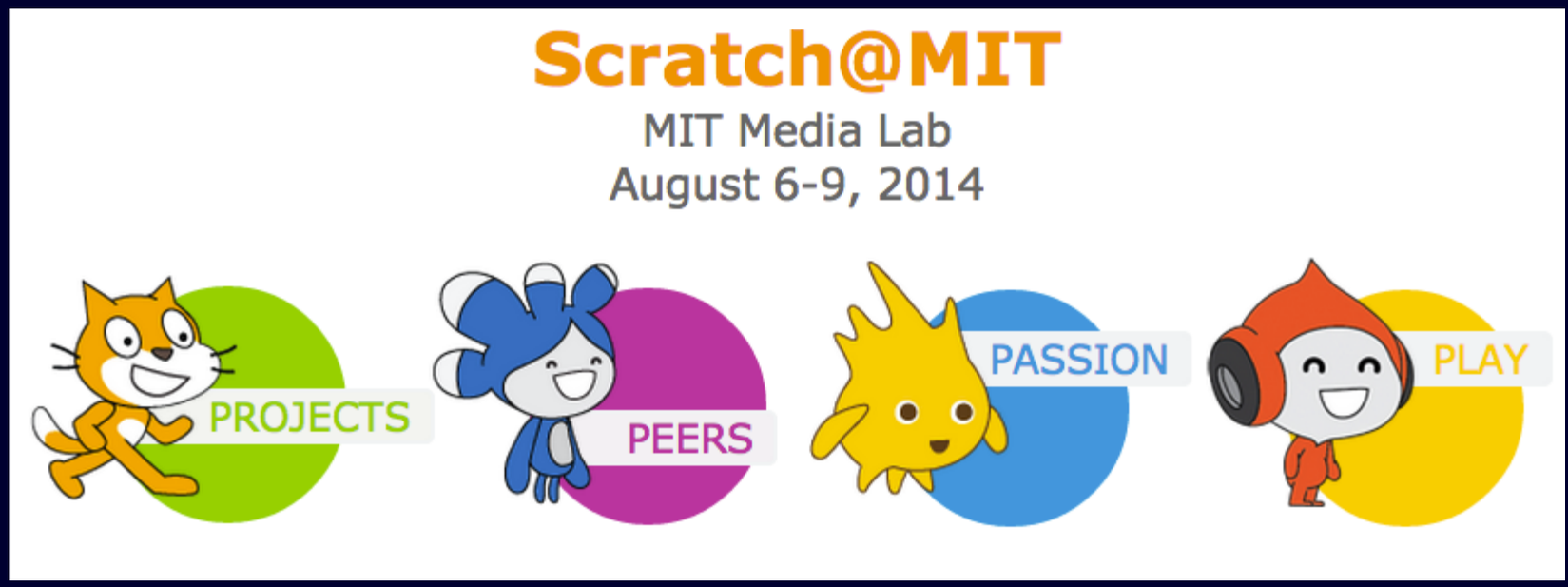
Key Features

creation

PORTAL 2
PERPETUAL TESTING INITIATIVE


APERTURE
LABORATORIES

creation


Scratch@MIT
MIT Media Lab
August 6-9, 2014
PROJECTS
PEERS
PASSION
PLAY

forever
imagine
program
share

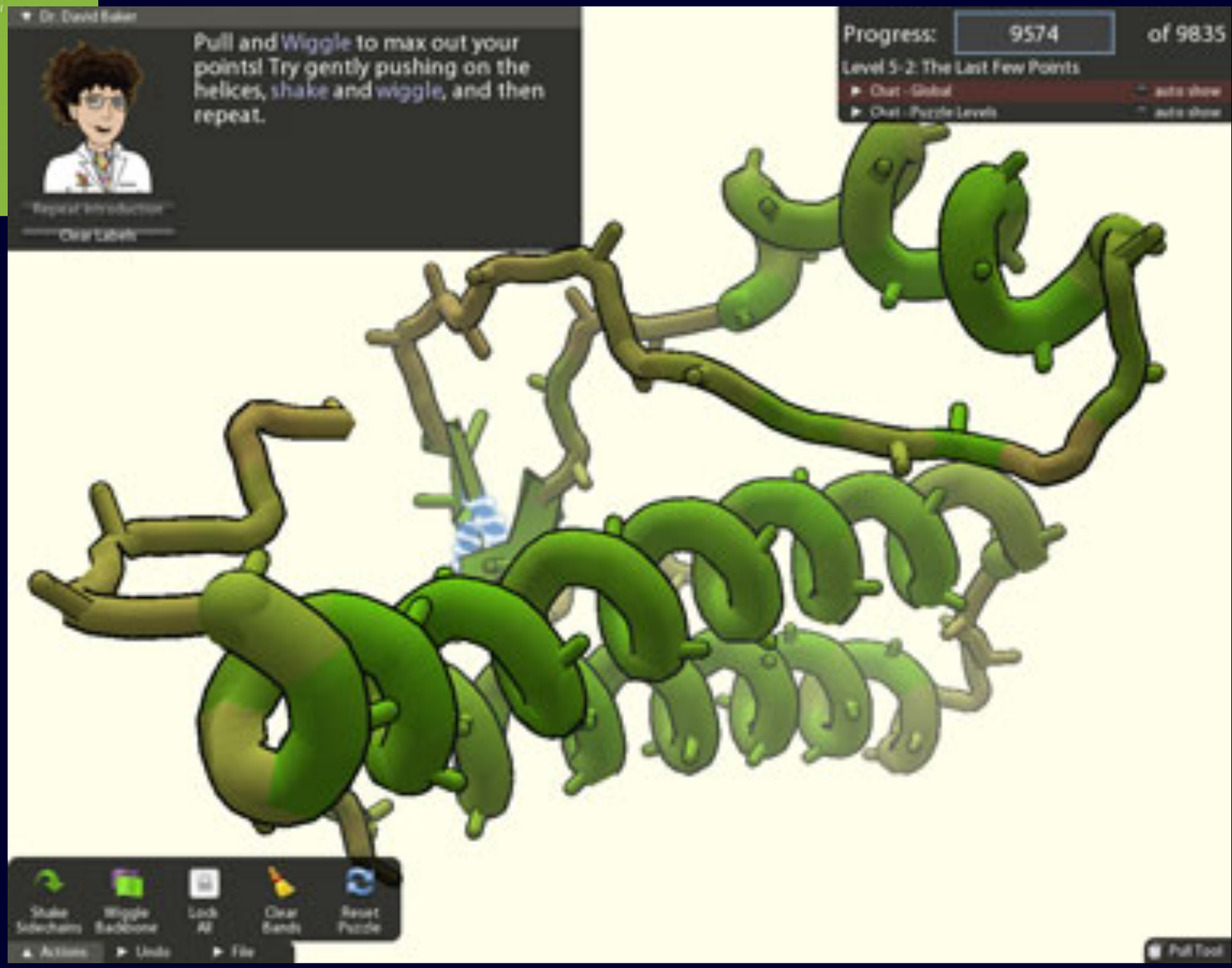
creation

strategy

strategy

foldit

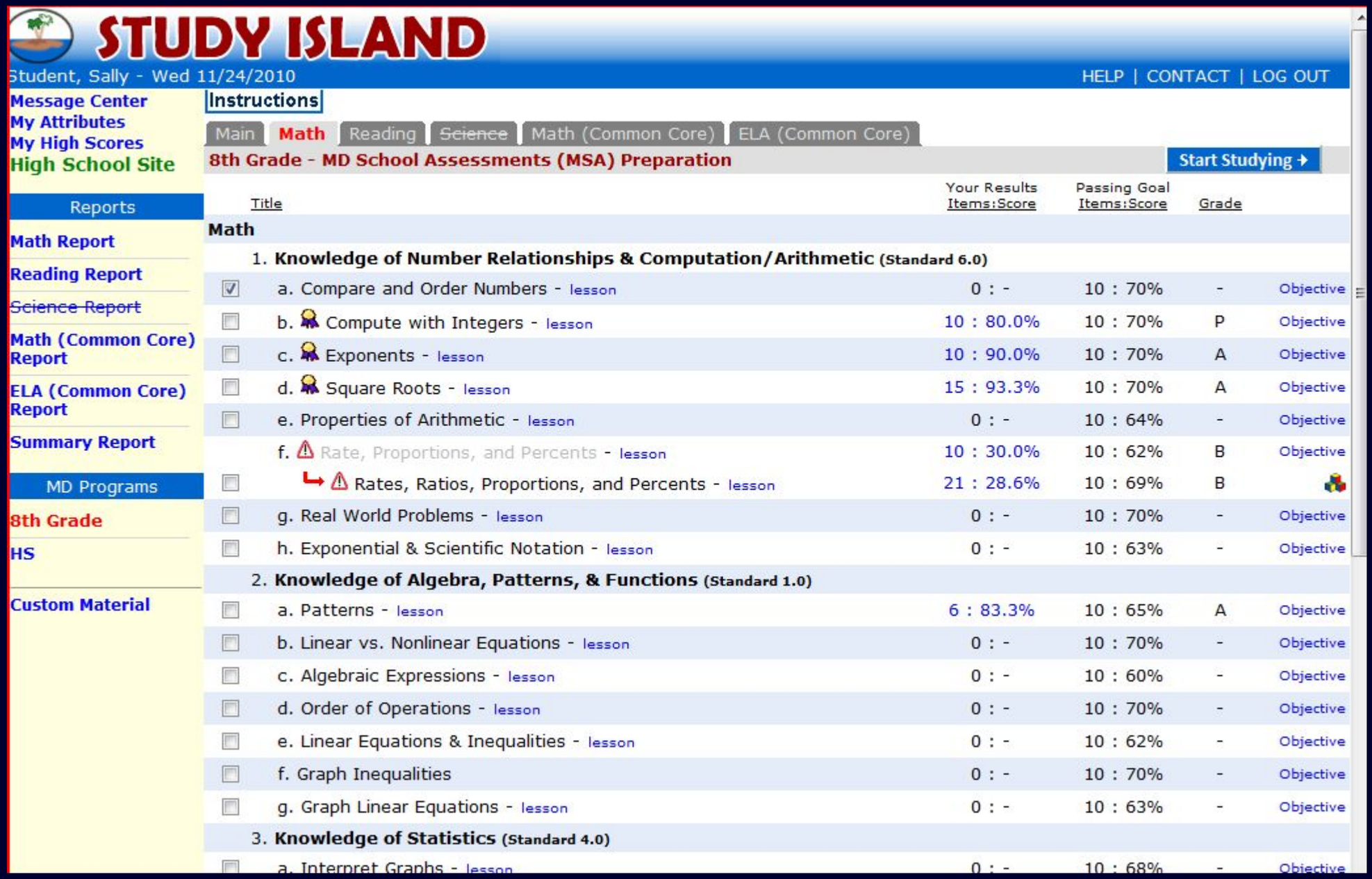
Solve Puzzles for Science



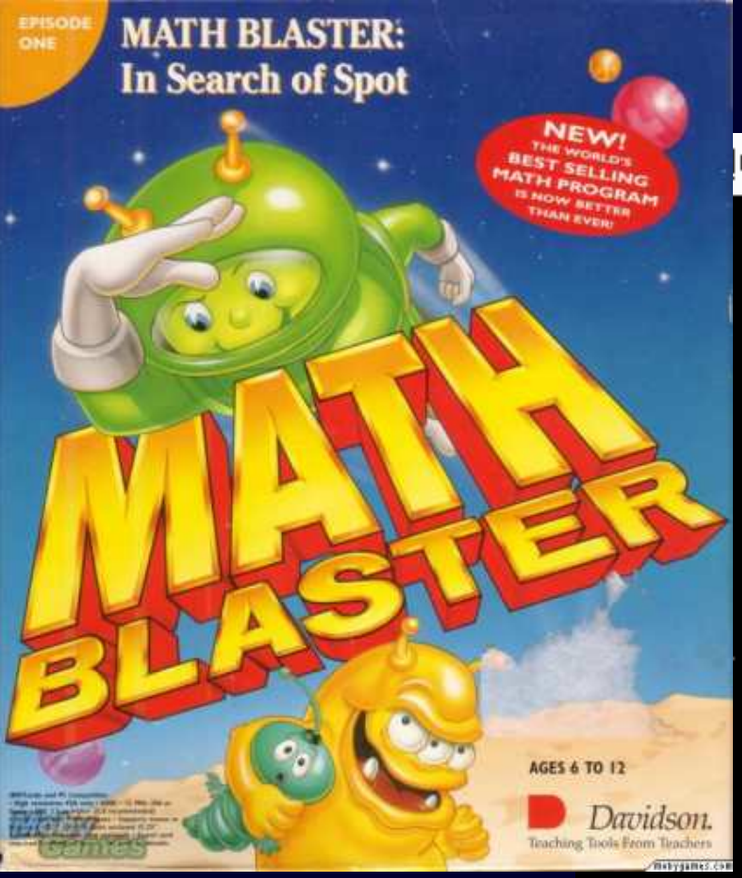
puzzle/strategy

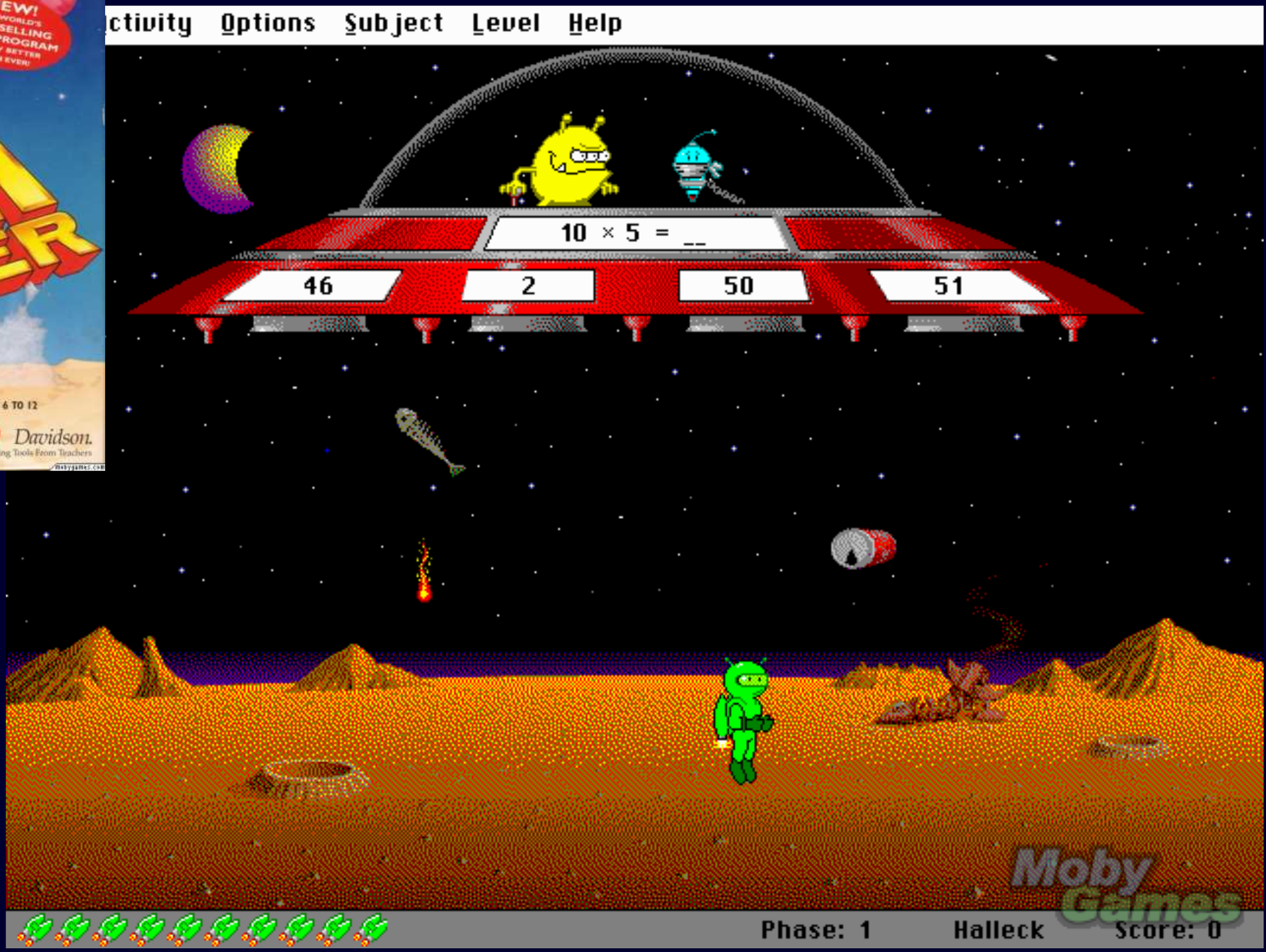
puzzle

puzzle



drill & practice

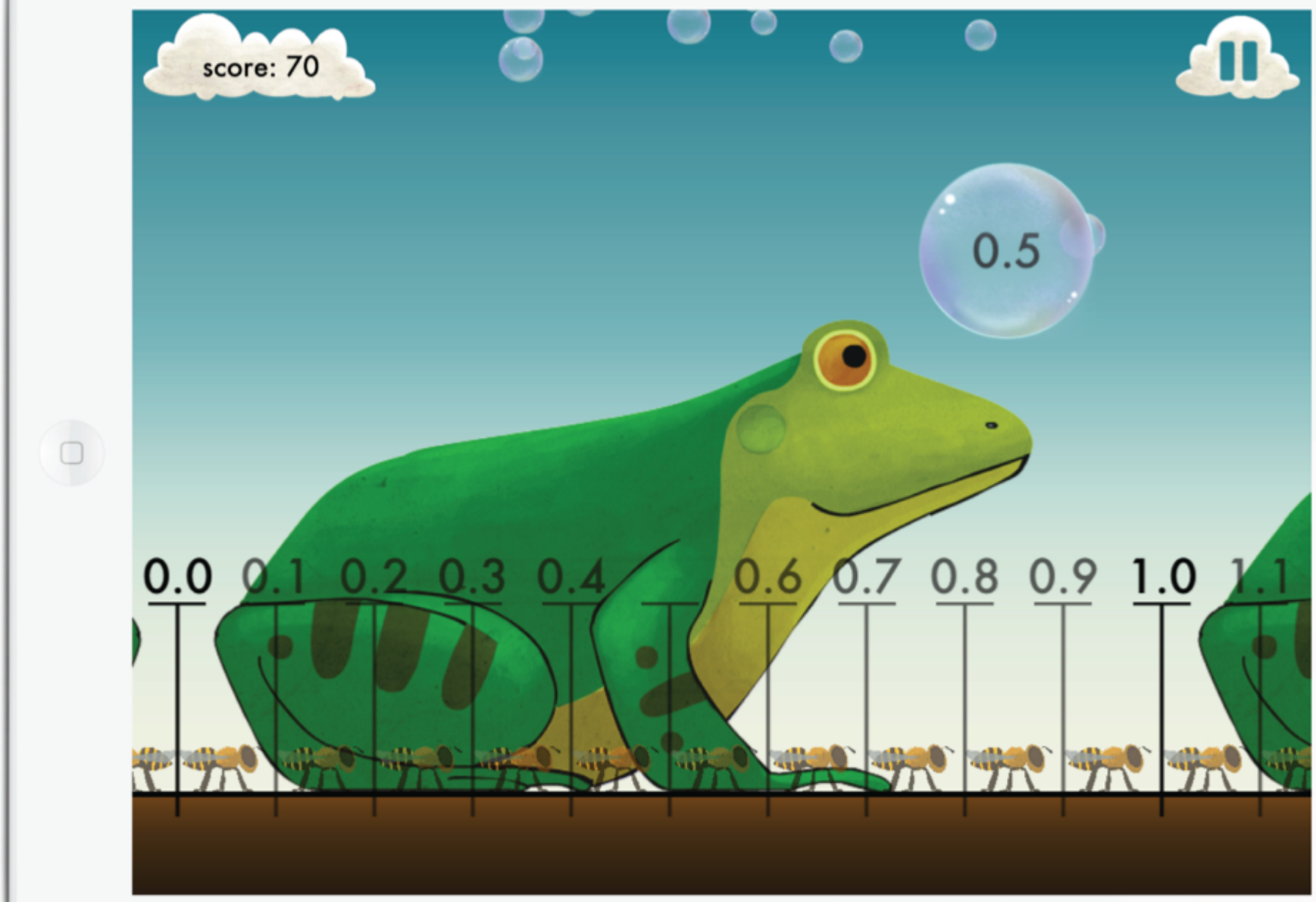




drill & practice

motion MATH

play with numbers!



drill & practice

Minecraft

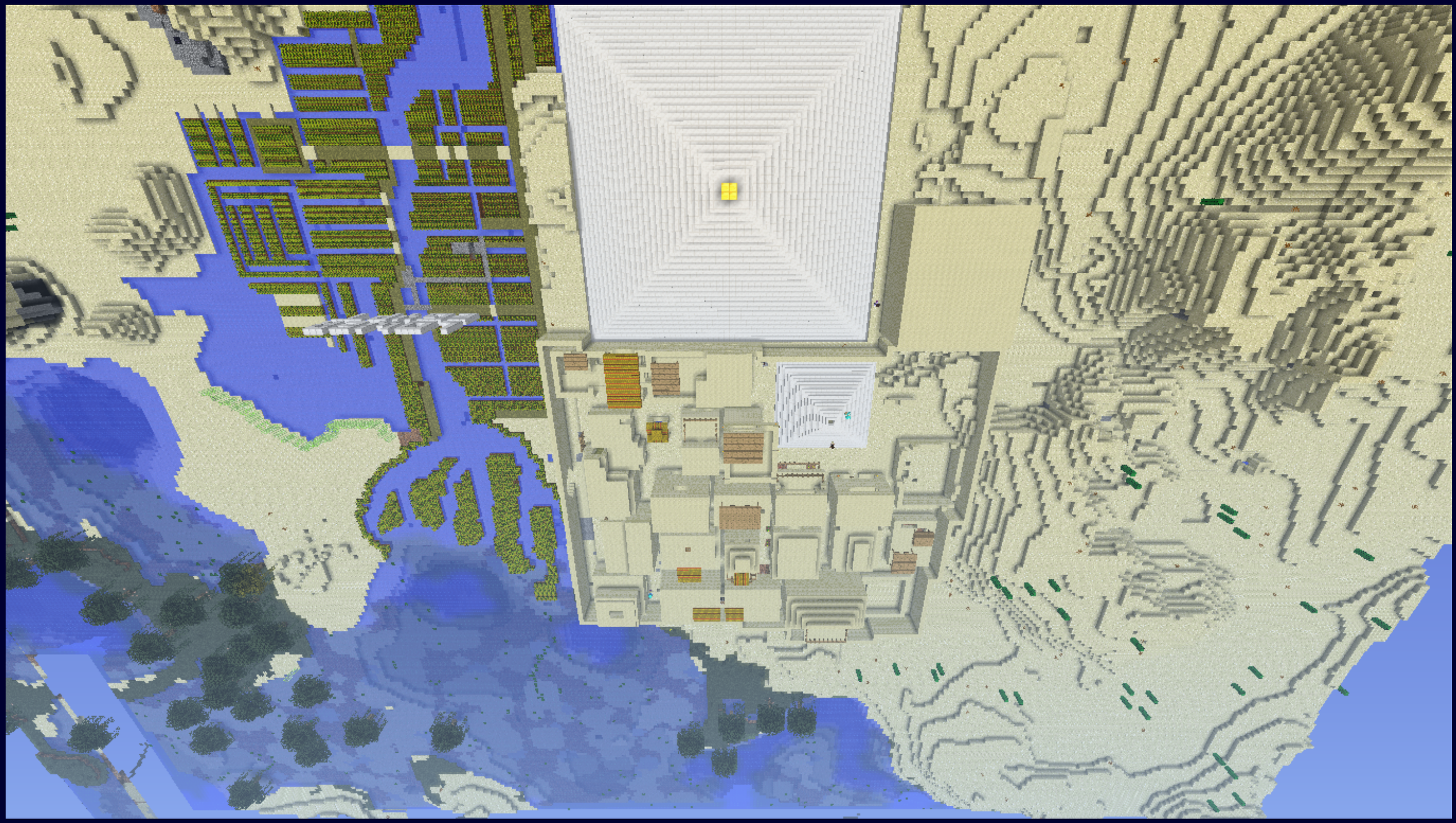
sandbox (open world)

Example (2machines Article)

- Minecraft
  - Open-Ended Sandbox
  - Creativity
  - Social Skills
  - Exploration
  - Teamwork and Cooperation
  - Problem Solving
  - Playing is Fun

Minecraft Example

- Roman City
- Link to ICE Symbaloo



LOWER EGYPT
LOWER EGYPT

universe SANDBOX
Interactive Astronomy Software for Everyone

what is it? download buy community

Install Universe Sandbox
Requires Windows 8, 7, Vista, or XP SP3

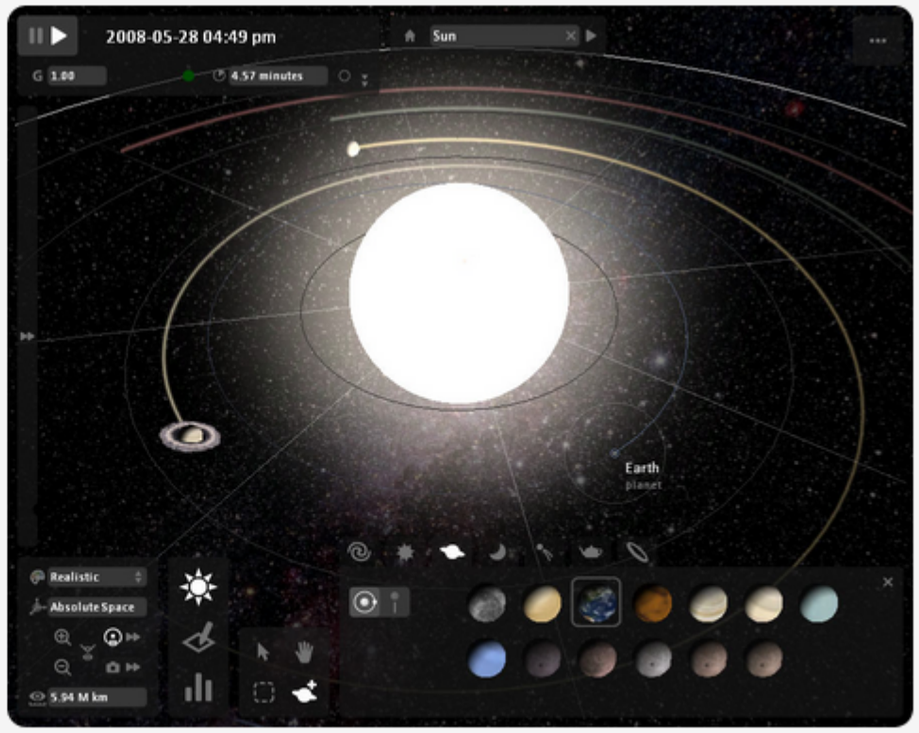
What is Universe Sandbox?

universe SANDBOX 2
alpha coming in 2014

Universe Sandbox is an interactive space simulator for Windows based PCs.

Unlike most astronomy software that just shows you what the sky looks like or where the planets are, Universe Sandbox is a powerful gravity simulator. You can add another star to our solar system and watch it rip the planets from their orbits.

The free forever version allows you to explore and discover any simulation. Optionally you can upgrade to to the premium version for unlimited control.



sandbox (open world)

RPG (Lifehacker Article)

- Role-Playing Games
  - Dungeons and Dragons
- Playing Cultivates Creativity & Storytelling
- Level Up Social Skills
- Teamwork and Cooperation
- Problem Solving
- Playing is Fun

PBS Idea Channel

- Can Dungeons & Dragons Make You A Confident & Successful Person?

- Link to ICE Symbaloo

12 million users

role-playing (rpg)

role-playing (RPG)

role-playing (rpg)

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tabletop

BoardGameGeek, LLC

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BoardGameGeek is a website that was founded in January 2000 by Scott Alden and Derk Solko as a resource for the board gaming hobby. The database holds reviews, articles, and session reports for over 66,000 different games, expansions, and designers. Wikipedia

Founded: 2000

Founders: Derek Solko, Scott Alden

tabletop

Longest Road
Building Costs
Road
Settlement
City
Building Costs
Road
Settlement
City

tabletop

Direct Bot
Nebulous Bot
Basic Bot
Vancouver
Calgary
Winnipeg
Sault St Marie
Montréal
Seattle
Toronto
Boston
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Portland
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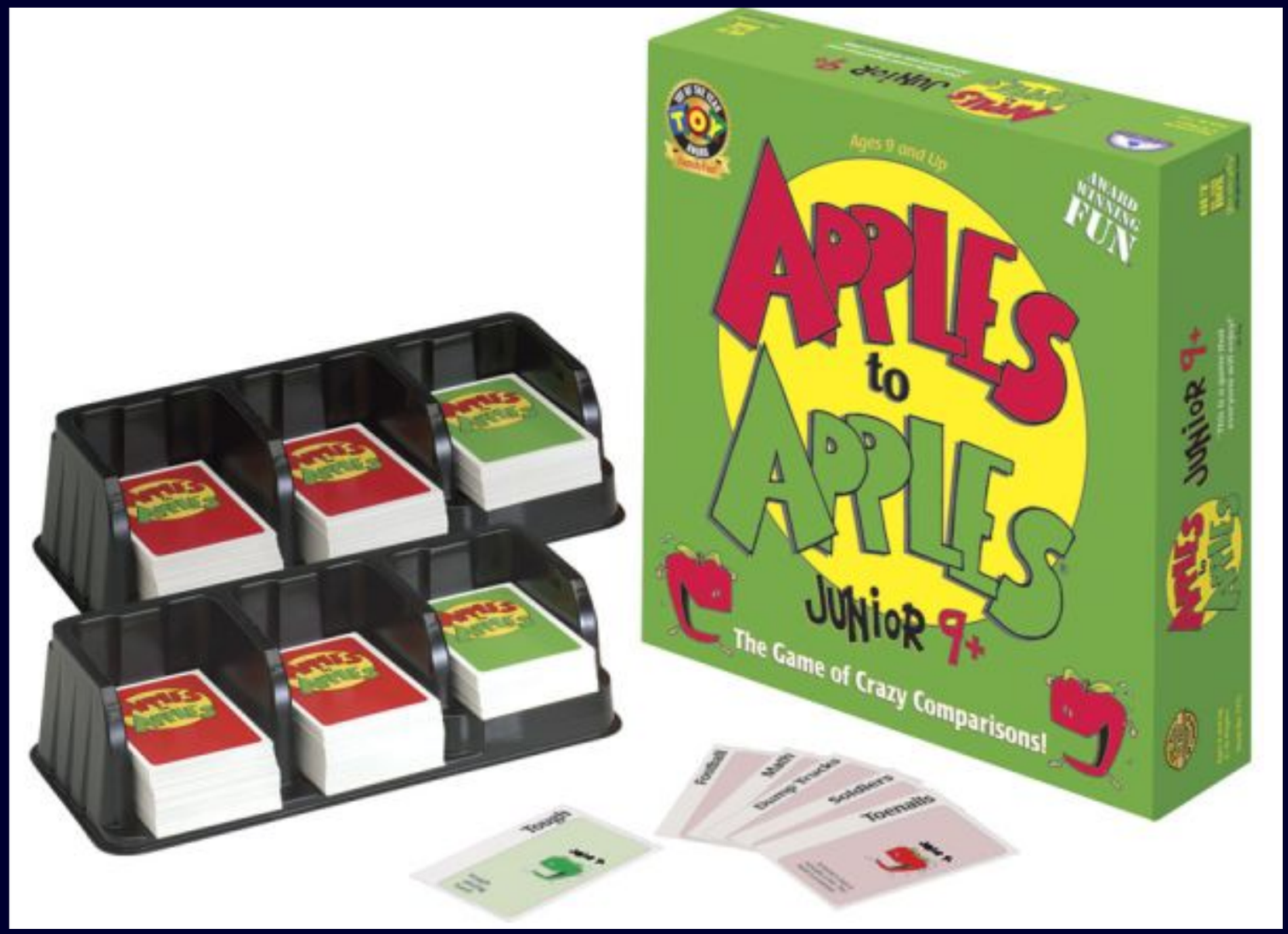
tabletop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Math
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