

Minecraft: Learning Reimagined

Presented by: Zack Gibert

MINECRAFT: LEARNING REIMAGINED

ZACK GILBERT

5TH/6TH GRADE

THOMAS METCALF SCHOOL

ILLINOIS STATE UNIVERSITY



WHY ARE YOU HERE?

You already use Minecraft in the classroom

- Preach
- Learn something new

You want to use Minecraft

- Preach
- Learn something new
- How to setup

You are debating to use Minecraft

- Preach
- Learn something new
- How to setup
- SSS

Other

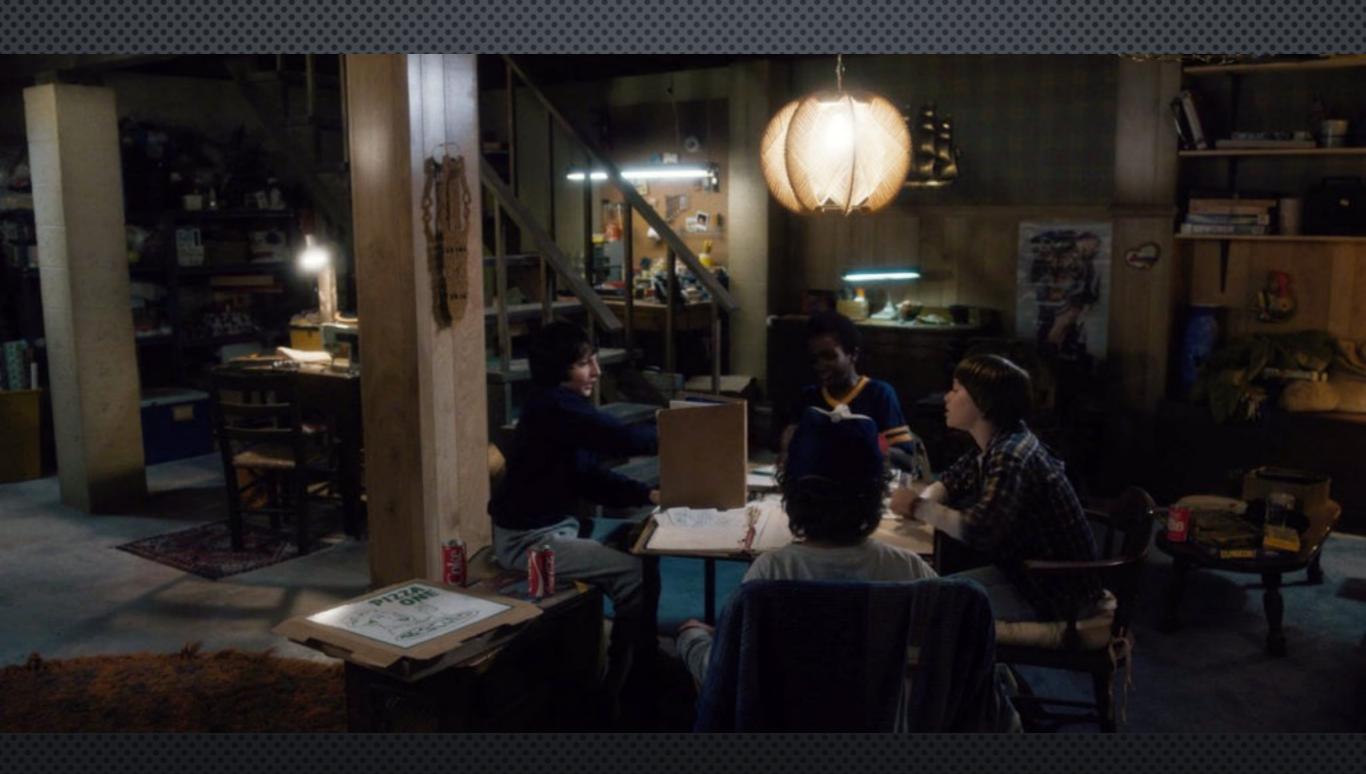
 Really...some teacher is letting students use Minecraft...is he crazy?!?!

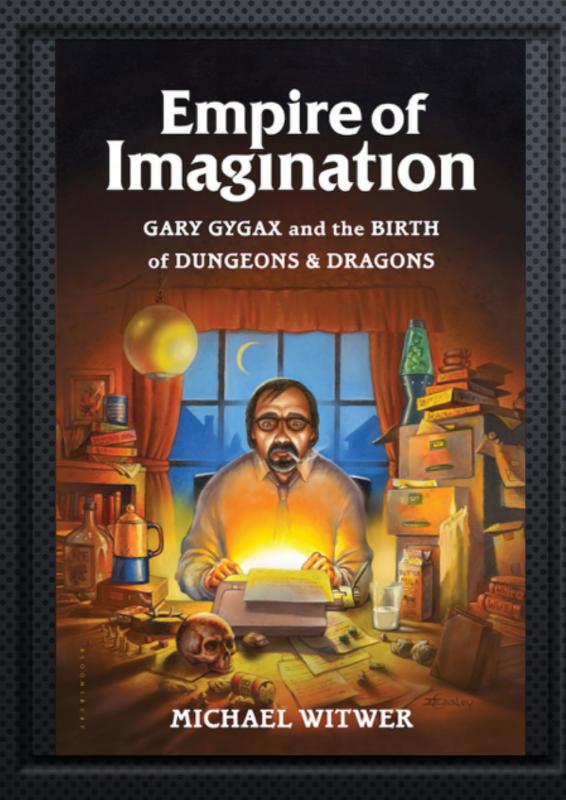
Something is missing?

- Why use Minecraft?
- Is Minecraft an effective learning tool?
- Assessment?

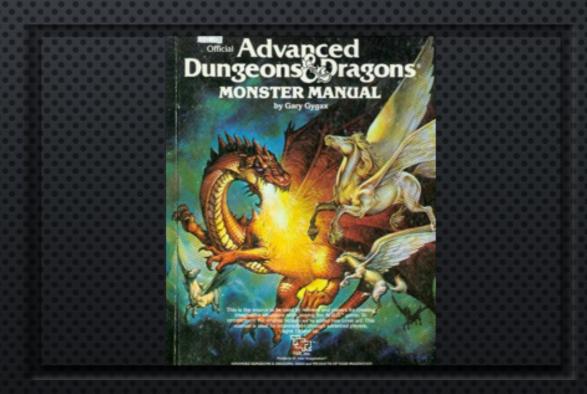
A long time ago....

A LITTLE BACKGROUND....



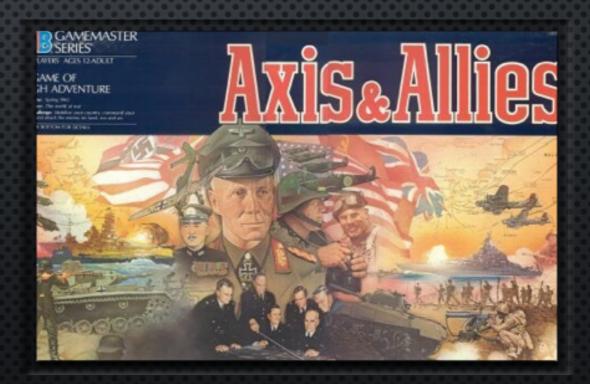


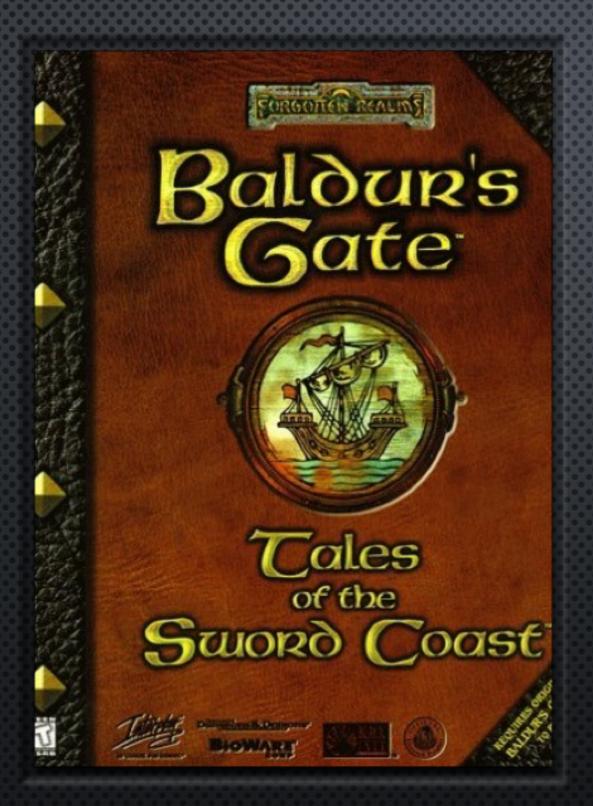




























WHAT DO THESE GAMES HAVE IN

JEN GROFF - MIT MEDIA LAB

•7 ESSENTIAL PRINCIPLES OF INNOVATIVE LEARNING LINK



ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENT (OECD) LAUNCHED THE INNOVATIVE LEARNING ENVIRONMENTS

7 Principles of Learning

1 Learners at the center

The social nature of learning 2

3 Emotions are integral to learning

Recognize individual differences 4

5 Stretching all students

Assessment for learning 6

7 Building horizontal connections

LEARNERS HAVE TO BE AT THE CENTER OF WHAT HAPPENS IN THE CLASSROOM

WITH ACTIVITIES FOCUSED ON THEIR COGNITION AND GROWTH.
 THEY HAVE TO ACTIVELY ENGAGE IN LEARNING IN ORDER TO
 BECOME SELF-REGULATED LEARNERS WHO ARE ABLE TO CONTROL
 THEIR EMOTIONS AND MOTIVATIONS DURING THE STUDY PROCESS,
 SET GOALS, AND MONITOR THEIR OWN LEARNING PROCESS.



LEARNING IS A SOCIAL PRACTICE AND CAN'T HAPPEN ALONE

• "BY OUR NATURE WE ARE SOCIAL BEINGS AND WE LEARN BY INTERACTING," GROFF SAID. "WE LEARN BY PUSHING AND PULLING ON CONCEPTS WITH ONE ANOTHER." STRUCTURED, COLLABORATIVE GROUP WORK CAN BE GOOD FOR ALL LEARNERS; IT PUSHES PEOPLE IN DIFFERENT WAYS.



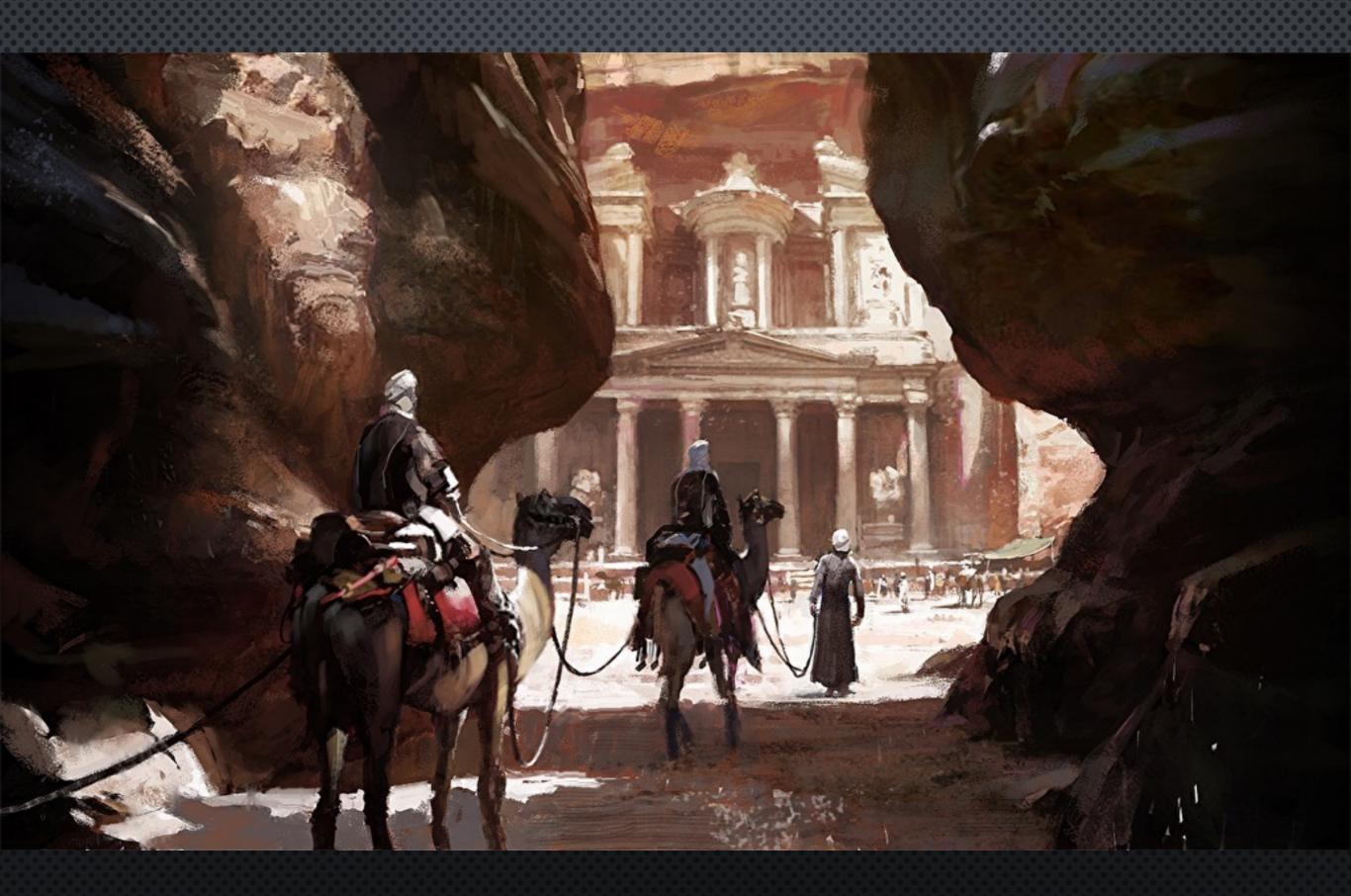
EMOTIONS ARE AN INTEGRAL PART OF LEARNING

• STUDENTS UNDERSTAND IDEAS BETTER WHEN THERE'S INTERPLAY BETWEEN EMOTIONS, MOTIVATION AND COGNITION, SO POSITIVE BELIEFS ABOUT ONESELF ARE A CORE PART OF REACHING A MORE PROFOUND UNDERSTANDING.



LEARNERS ARE DIFFERENT

• AND INNOVATIVE LEARNING ENVIRONMENTS REFLECT THE VARIOUS EXPERIENCES AND PRIOR KNOWLEDGE THAT EACH STUDENT BRINGS TO CLASS. "YOU REALLY WANT PRACTICES AND PROCESSES THAT HELP TEACHERS ENGAGE EACH STUDENT WHERE THEY ARE," SAID GROFF. THIS PRINCIPLE IS UNDERSTOOD BY EVERY FRUSTRATED EDUCATOR TEACHING TO A "MIDDLE" THAT DOESN'T EXIST.



STUDENTS NEED TO BE STRETCHED, BUT NOT TOO MUCH

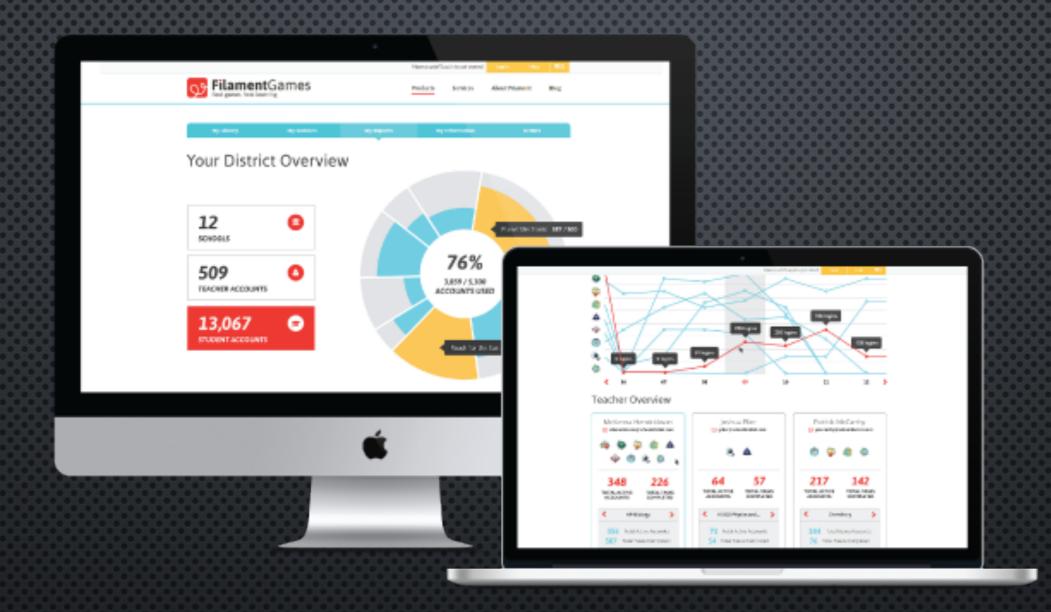
"It's really critical to find that student's sweet spot,"
 Groff Said. Educators should try to prevent both
 coasting and overloading. Students need to experience
 Both academic success and the challenge of discovery. In
 A diverse classroom group work can help achieve this as
 Students at different levels help one another.





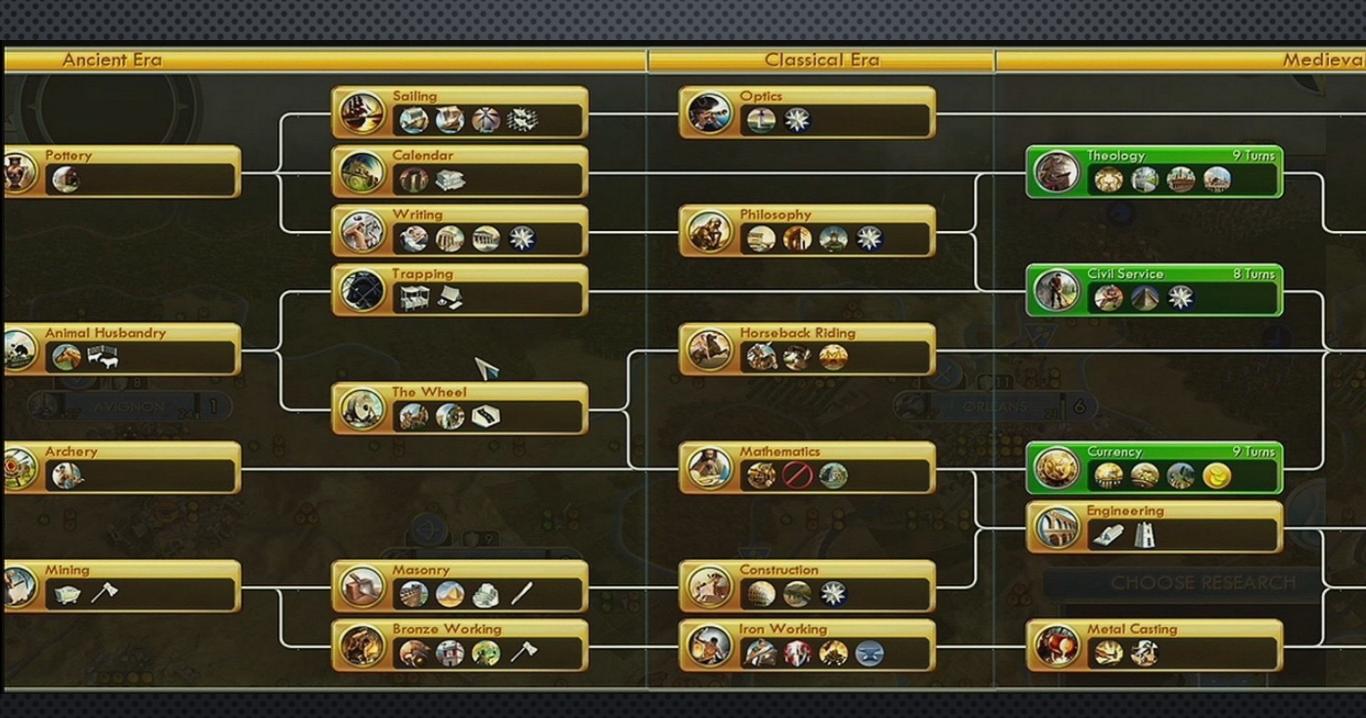
ASSESSMENT SHOULD BE FOR LEARNING, NOT OF LEARNING

• ASSESSMENTS ARE IMPORTANT, BUT ONLY TO GAUGE HOW TO STRUCTURE THE NEXT LESSON FOR MAXIMUM EFFECTIVENESS. IT SHOULD BE MEANINGFUL, SUBSTANTIAL, AND SHAPE THE LEARNING ENVIRONMENT ITSELF. "GOOD TEACHERS DO THIS INFORMALLY MOST OF THE TIME," GROFF SAID. "BUT WHEN IT'S DONE WELL AND MORE FORMALLY IT'S A WHOLE STRUCTURE AND METHODOLOGY WHERE YOU COLLECT FEEDBACK ON THE LEARNING PATHWAY AND IT DRIVES THE NEXT STEP THAT YOU TAKE."



LEARNING NEEDS TO BE CONNECTED ACROSS DISCIPLINES

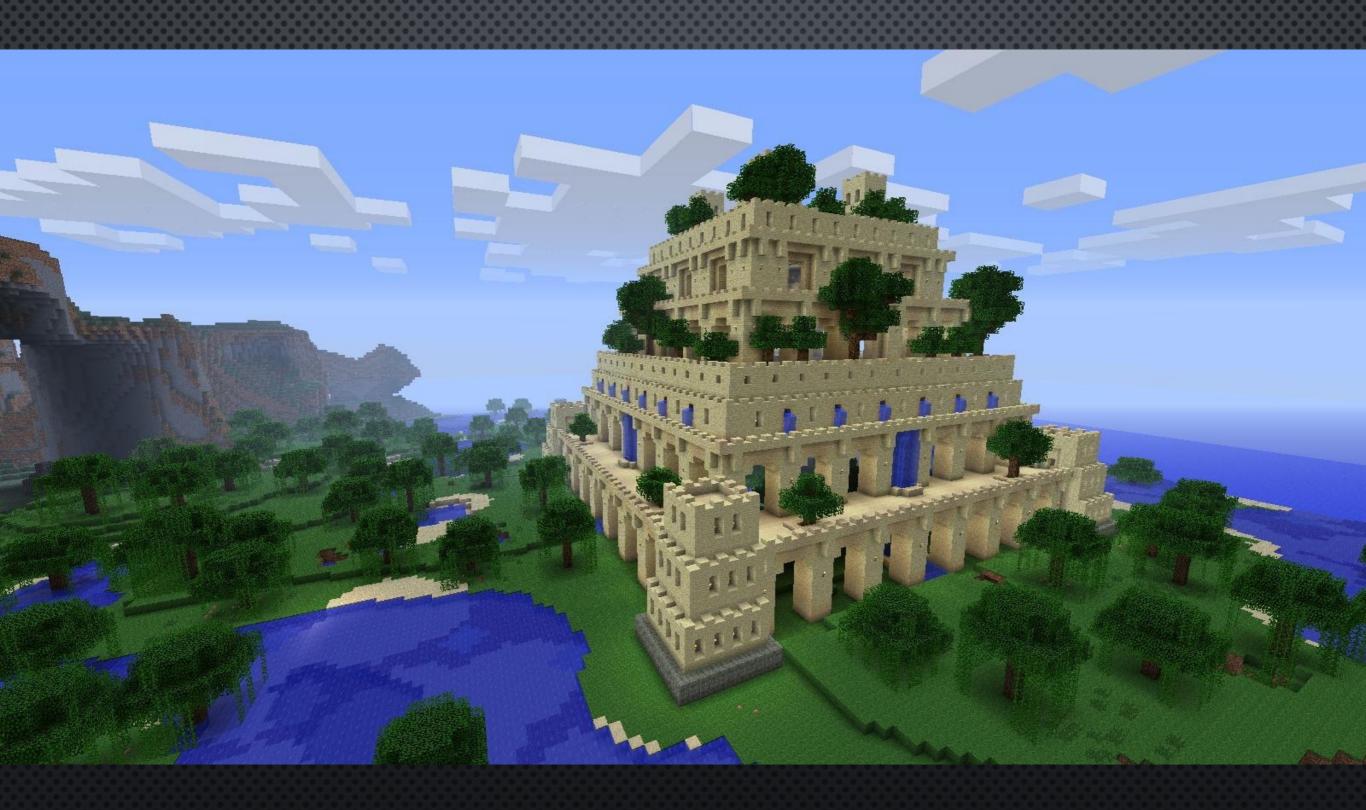
AND REACH OUT INTO THE REAL WORLD. LEARNING CAN'T BE
MEANINGFUL IF STUDENTS DON'T UNDERSTAND WHY THE
KNOWLEDGE WILL BE USEFUL TO THEM, HOW IT CAN BE APPLIED IN
LIFE. UNDERSTANDING THE CONNECTIONS BETWEEN SUBJECTS AND
IDEAS IS ESSENTIAL FOR THE ABILITY TO TRANSFER SKILLS AND ADAPT.
"WE CAN'T JUST HAVE THINGS REMAIN IN SILOS THAT NEVER
INTERACT," GROFF SAID.



MINECRAFT EDUCATION EDITION

WITHIN THE WORLD OF GAMING, MINECRAFT IS SPECIAL IN FOUR WAYS:

1. THE MINECRAFT EXPERIENCE IS ABOUT
GATHERING AND BUILDING WHATEVER YOU
CAN THINK OF; IT IS A TOOL OF PRODUCTION
AT IT'S CORE.



1. It's also built without a structure or scaffolding that forces certain kinds of experiences. It trusts the player to think.



3. MINECRAFT IS SOCIAL AND IS APPEALING BECAUSE YOU CAN PLAY WITH YOUR FRIENDS.



4. The inner guts of Minecraft are wide open to learning more about programming.

MINECRAFT NOTE BLOCKS - QUEEN BOHEMIAN RHAPSODY



HOW IS MINECRAFT BEING USED WITHIN DIFFERENT SUBJECTS?

MATH

Matheraft: Fractions on a number line

SCIENCE

THE DIGESTIVE SYSTEM IN MINECRAFT

LANGUAGE ARTS

TEACHER'S GUIDE: FIVE WAYS MINECRAFT (AND OTHER VIDEO GAMES) CAN BOOST STUDENT WRITING SKILLS

SOCIAL STUDIES

Minecraft Humanity — Refugee Crisis — ImmersiveMind







CODING

Steve Isaacs Minecraft Coding

HOW DO YOU GET ACCESS TO MINECRAFT?

MINECRAFT EDUCATION EDITION

MINECRAFT SYMBALOO LINKS MINECRAFT EDUCATION EDITION

How much does it cost?

We understand the demands on today's educators and are committed to making Minecraft: Education Edition as affordable and accessible as possible. Minecraft: Education Edition costs \$5 per user per year, and opportunities for volume licensing are also available by contacting your preferred reseller.

GAME CLUBS

RESOURCES/LINKS

MINECRAFT SYMBALOO LINKS TEACHERCRAFT: HOW TEACHERS LEARN TO USE MINECRAFT IN THEIR CLASSROOMS All my Symbaloo Links EDGAMER SITE EDGAMER TWITTER - @EDGAMER



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