25 REAL WAYS MINECRAFT IS BEING USED IN THE CLASSROOM

1 Measurement and Data Collection

"Students measured every part of the school to calculate how many blocks they would need for each room and had to decide whether to round up or down measurements."

Matthew Bell – Primary Teacher at Shadowale VC School, UK

2 Communication and Collaboration

"Digital spaces like Minecraft can instill in our students lifelong skills in communicating and collaborating effectively with people all over the world, regardless of race, religion or gender."

Colin Gallagher – Teacher at the ISS International School, Singapore

3 Building Digital Circuits

"I have recently started developing a Minecraft scheme of work. They will be learning about computer circuitry and some of the different gates in Minecraft and they show you how to use the NOT/AND/OR gates."

Ray Chambers – Head of IT/Computing at Uxbridge Community College, UK

4 Exploring Real Life Buildings

"You might have students identify aspects of a theater, or use it as a backdrop for a play. If students really want to go nuts, have students create those models themselves."

Andrew Miller – Educational Consultant and Instructional Coach

5 Teaching a Second Language

"An English-language teacher in Denmark told children they could play Minecraft collectively in the classroom but with one caveat: they were allowed to communicate both orally and through text only in English."

André Chercka – Special Ed teacher in Denmark

6 Discussing Climate Change

"Students will create Minecraft worlds illustrating the process of climate change within the atmosphere and physical earth, design and build a sustainable home on sustainable land to withstand the process of climate change."

Minecraft Education Resources

7 Learning to Code

"Modding also had another use, and we think it's the key to making Minecraft time productive. By modding Minecraft, children as young as seven can learn to code using the Java programming language."

David Dodge – Founder of Codakid

JAVA CODE

8 Reading and Literacy

"Given the amazing freedom of this virtual playground, Minecraft books take on so many different forms. From handbooks, crafts, novels and activities, there there are so many books to blow the minds of young Minecraft fans."

Wade Segan – Fractus Learning

9 Virtual Scientific Experiments

"Real experiments often require a lot of money and time, and so we can't really do that for every kid. Or can we? Doing real science in the virtual world of Minecraft a lot faster and less expensively than we could in the real world – and without having to get wet!"

Dr. Michael Connell – Education scientist

10 Teaching Sustainable Planning

"Students were asked to create a model of a sustainable city that used little energy. Students were able to build their cities as they saw fit and were given a particular role of farmer, builder, or miner."

Jeffrey Adans – Middle School Science Teacher at Crescent School, Toronto

11 Learning Chemistry With MolCraft

"There are also a whole load of treasure chests dotted around filled with goodies, puzzles and quiz questions. If you want to, you can make it really difficult. If you waste time on these, you'll probably have learnt a fair bit of chemistry along the way!"

University of Hull

12 Minecraft for Music

"I've been using Minecraft for about a year now. I had seen people creating songs by hand, percy and thought that it might be quite difficult. I couldn't have been more wrong."

Ray Chambers – Head of IT/Computing at Uxbridge Community College, UK

13 Exploring Geography

"To evaluate the children's understanding of rivers, I challenged them to build one on Minecraft. They had to include all of the key features we had focused on and create it in a river way."

Leeroy Farley – Primary teacher in Manchester, UK

14 Conflict Resolution

"As a result, most conflicts in Minecraft Club have been resolved in under 5 minutes, and we've learned how to advocate for themselves, resolve conflicts, and repair relationships in a peaceful manner– such valuable social skills in life."

Keegan Albaugh – Co-Curricular Coordinator at Centerpoint School

15 Studying Works of Art

"Allow players of Minecraft to enjoy artworks like never before. Delve into the details of the artwork, explore paintings and the real-life places they depict. Undertake challenges relating to the themes of each artwork, explore how they were made and hear the stories they have to tell."

Tate Gallery

16 Physics with Rube Goldberg Machines

"Rube Goldbergs provide a way for students to demonstrate their understanding of Physics concepts in a physical way. Minecraft is another way for students to tap into that creativity when they don't have access to a craft space or wood working tools."

Minecraft Education Resources

17 Literacy and Writing Skills

"Students login to Minecraft where I have recreated the setting of the vignette they have just read, complete with both familiar and new characters. The students interact with and learn more details and experience different perspectives about the scene which they record in their in-game diaries."

John Miller – Middle school teacher in King City, California

18 Statistical Concepts

"We are going to build a histogram representing our results of the data. I'm going to give you a Minecraft block to place at the correct place on this graph. You'll place your block on top of the place that represents the total number of mushrooms you collected."

Dave Faulkner – Educational game designer and former teacher

19 Hands-On Biology

"It hooked the students with the game, but I was able to convey the important information of Funakoi that included pictures, notebks, and real life data."

Nathan Javellana – Science and Technology Instructor at Kamehameha Schools, Hawaii

20 Minecraft Mindfulness

"Embedded in the design and the lore of the game are nuggets of mindfulness reminiscent of psychology. From Zen to Taoism to Stoicism, mind mental health to the meaning of life Minecraft has something to teach us."

Mike Langlois – Game Therapist

21 Size and Perimeter

"They were told to use 96 cubes to create a house. To build it, they had to create the model on the floor, draw a picture, record the info for the area and then find the perimeter."

ElementaryMC

22 Pixel Art

"One of the easiest ways to get your creative juices flowing in Minecraft is pixel art. Pixel art uses various blocks in Minecraft to create pictures."

Jon Hook – Minecraft World

23 Mathematical Relationships

"From the definition of "number" to the commutative property of addition to the relationship between addition and multiplication, we explored some topics, like square roots, that were not part of my original plan but that emerged during the conversation."

Dr. Michael Connell – Education scientist

24 Quantum Mechanics

qCraft

"Finding common ground between schoolchildren and quantum-mechanics researchers is no easy task. However, through a recent collaboration with Google, researchers at Caltech have created a new space for this unlikely interaction–in the world of Minecraft, a popular video game."

California Institute of Technology

25 Changing Classroom Culture

"By far the greatest effect Minecraft has had on my students was a change in the classroom culture and attitudes about education."

Jen Pike – Former teacher at Ascension Catholic School, Los Angeles

FRACTUS LEARNING