



Coronavirus Challenges for Students #1

Handshake Alternative

The problem is: people can spread germs by touching other people. Our hands carry more germs than most other parts of the body.

One of the solutions is: people are asked not to shake hands when they meet each other.

A problem with this solution is: people still want to greet each other in a polite and friendly way.

Can you find a better solution? Design a way that people can shake hands without actually touching each other.



Coronavirus Challenges for Students #2

Cough Catcher

The problem is: people can spread germs by coughing and sneezing.

One of the solutions is: people wear masks to catch droplets from their own coughs and sneezes and prevent breathing in droplets from other people's coughs and sneezes.

A problem with this solution is: masks can become uncomfortable and make our ears and noses sore.

Can you find a better solution? Design a more comfortable way to stop droplets from coughs and sneezes reaching other people.



Coronavirus Challenges for Students #3

Health Check

The problem is: A fever is one of the first signs that someone is getting sick, but it is hard to tell if someone has a fever just by looking at them.

One of the solutions is: people have their temperature taken when they enter a public building. If they don't have a fever, they are given a sticker with the date on it, so others can see that they are okay.

A problem with this solution is: the stickers get caught up in people's hair and/or fall off their clothes. They then fall on the ground and need to be removed.

Can you find a better solution? Design something to help us tell whether someone has a fever or is feeling unwell.



Coronavirus Challenges for Students #4

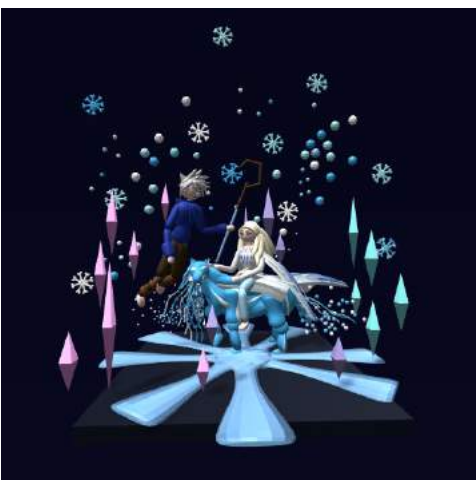
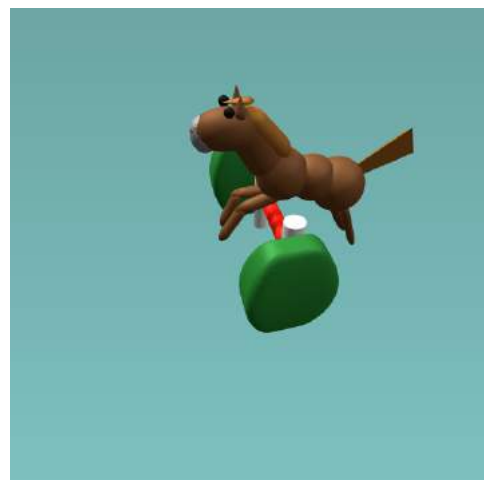
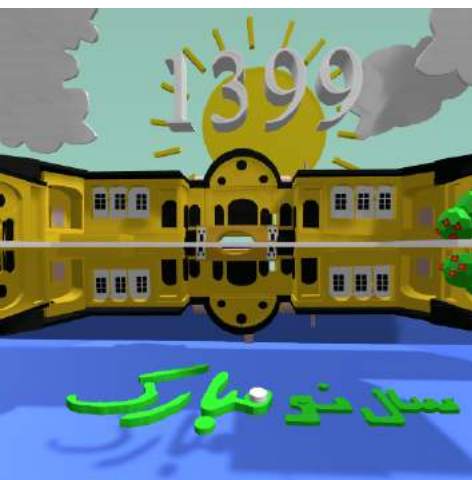
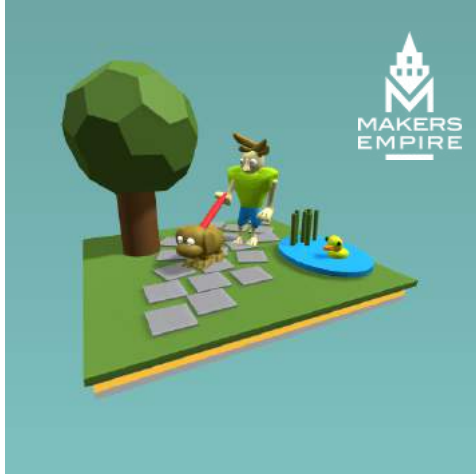
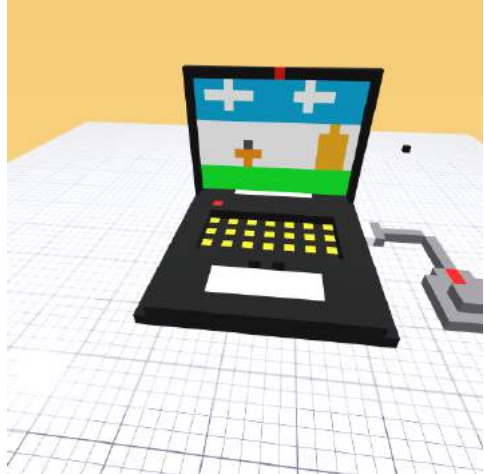
No Sanitiser Left Behind

The problem is: germs on our hands can enter our mouths when we eat.

One of the solutions is: apply hand sanitiser to our hands before we eat every meal or snack.

A problem with this solution is: if people are eating out somewhere it is easy for them to forget to take their bottle of hand sanitiser with them and leave it on the table.

Can you find a better solution? Design a way to stop people leaving their hand sanitiser bottles behind.



Coronavirus Challenges for Students #5

Design for a Friend

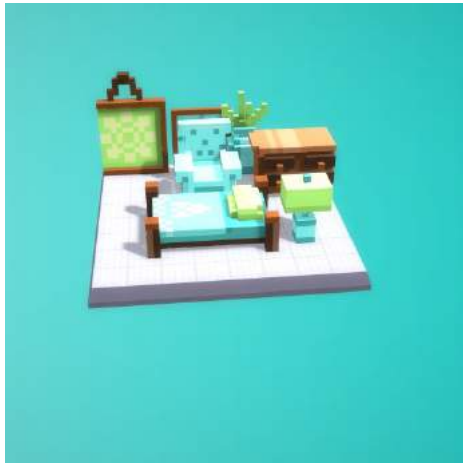
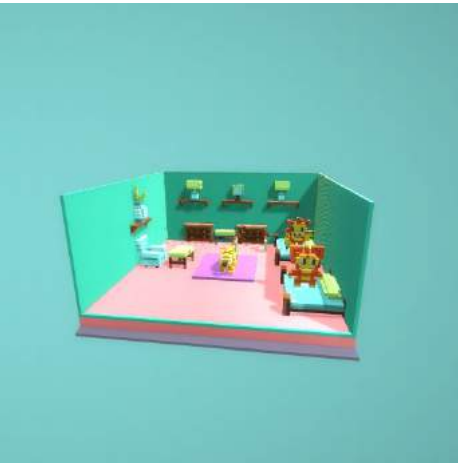
The problem is: children can easily catch viruses from other children

One of the solutions is: children stay home from school if there have been cases of the virus where they live.

A problem with this solution is: children feel sad and lonely when they have to stay home.

Can you find a better solution? Design something for a friend who has to stay home from school to let them know you are thinking of them.

More resources at www.makersempire.com/learning-at-home-parents



Coronavirus Challenges for Students #6

Dream Bedroom

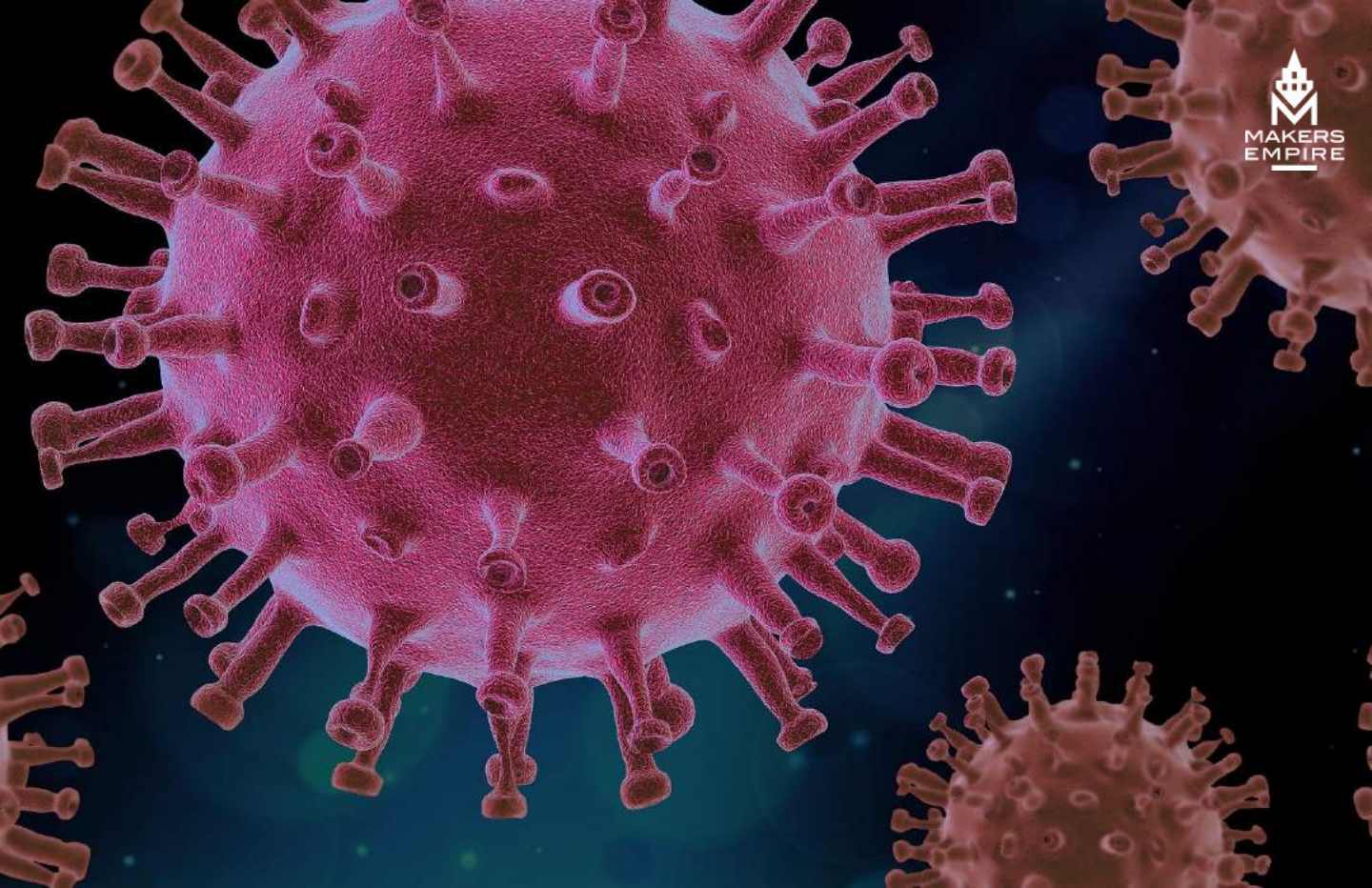
The problem is: children who are sick with a virus can easily spread it to other children or their families.

One of the solutions is: children who are sick stay in their bedrooms until they are well.

A problem with this solution is: it can be very boring staying in your bedroom all day.

Can you find a better solution? Design the most awesome bedroom ever! What amazing things would you like to have to keep you happy and entertained? Here are some example bedrooms made by students using Makers Empire

More resources at www.makersempire.com/learning-at-home-parents



Coronavirus Challenges for Students #7

Hands Off!

The problem is: we can spread germs when we touch things with our hands.

One of the solutions is: people take extra care to keep their houses clean. They wipe things that have been touched with disinfectant.

A problem with this solution is: we can't see germs so we can't tell if something is clean just by looking.

Can you find a better solution? Design a hands-off way to do an everyday task. How might you turn off a light switch, open a door, draw a picture, or play a computer game without touching anything with your hands?

More resources at www.makersempire.com/learning-at-home-parents



Coronavirus Challenges for Students #8

Contactless Coins

The problem is: money can carry germs because so many different people touch it.

One of the solutions is: people use plastic cards or mobile phones to pay for things.

A problem with this solution is: not everyone has plastic cards or a mobile phone.

Can you find a better solution? Design a way to pay for something with coins where nobody has to touch the money.

More resources at www.makersempire.com/learning-at-home-parents



Coronavirus Challenges for Students #9

Healthy Delivery

The problem is: people have to stay in their homes and can't go out to buy food.

One of the solutions is: people order food to be delivered to their house in a delivery truck.

A problem with this solution is: the delivery truck driver might spread or catch germs when they bring the food to the door.

Can you find a better solution? Design a way for food to be delivered into your house in a way that the driver can stay in the truck.



Coronavirus Challenges for Students #10

Rubbish Remover

The problem is: rubbish and waste can spread germs.

One of the solutions is: people wear plastic gloves when picking up rubbish and waste.

A problem with this solution is: plastic gloves tear easily and are not good for our environment.

Can you find a better solution? Design a way to pick up and dispose of rubbish without touching it.

More resources at www.makersempire.com/learning-at-home-parents