



Scientists Develop Plastic Film That Dismantles Viruses

Description

Many people touch many surfaces every day. This includes kitchen counters, bus handrails, desks, and phone screens. Viruses and germs can spread easily on these surfaces.

When a person touches a dirty surface, they can get sick by touching their face. It is possible to clean surfaces using chemical products. However, these products can be harmful to the environment and not always work well against germs.

Researchers have created a new type of surface using a special plastic with very small features. This design can break apart a type of virus called human parainfluenza virus type 3 (hPIV-3). This new surface can reduce the spread of disease on items like phones and hospital tools.

Testing showed that 94% of virus particles were destroyed when they touched this new material. The way the tiny pillars on the surface are arranged is very important for their effectiveness. This new technology can help many areas, from food packaging to public transport. Scientists still have a lot to learn, but this material could change how we fight viruses.

Vocabulary List:

1. **Researchers** //rɪ'sɜːtʃərz// (noun): people who study and try to find answers
2. **chemical** //ˈkɛmɪkəl// (adjective): relating to substances made by chemistry
3. **reduce** //rɪ'dus// (verb): make something smaller in amount or size
4. **particles** //ˈpɑːtɪkəlz// (noun): very small pieces of matter or material
5. **pillars** //ˈpɪlərz// (noun): small, upright, thin parts like tiny columns
6. **effectiveness** //ɪ'fɛktɪvənəs// (noun): how well something works to do its job

Comprehension Questions

Multiple Choice

1. What type of virus can the new surface break apart?

Option: Human immune virus

Option: Human parainfluenza virus type 3



Option: Influenza virus

Option: Bacterial virus

2. What percentage of virus particles were destroyed when they touched the new material?

Option: 80%

Option: 90%

Option: 94%

Option: 100%

3. What is a potential environmental concern regarding traditional cleaning products?

Option: They can be less effective

Option: They can be harmful to the environment

Option: They are too expensive

Option: They are hard to find

4. Which of the following is NOT mentioned as a surface that many people touch every day?

Option: Kitchen counters

Option: Bus handrails

Option: Desks

Option: Car seats

5. Which aspect of the new surface design is important for its effectiveness?

Option: Color

Option: Size of particles

Option: Arrangement of tiny pillars

Option: Thickness of the material

6. Where can the new technology potentially be used?

Option: Only in hospitals

Option: Food packaging and public transport

Option: Personal protective equipment only

Option: Home cleaning products

True-False

7. Viruses and germs do not spread easily on surfaces.

8. Testing showed that the new surface is completely ineffective against viruses.



9. The new material could be used to help fight diseases.
10. Traditional cleaning products are always the best solution for cleaning surfaces.
11. Researchers have developed a surface using a special type of plastic.
12. Human parainfluenza virus type 3 is a type of bacteria.

Gap-Fill

13. Many people touch many surfaces such as kitchen counters, bus handrails, and _____ .
14. When a person touches a dirty surface, they can get sick by touching their _____ .
15. The way the tiny pillars on the surface are arranged is very _____ for their effectiveness.
16. Researchers have created a new type of surface using a special plastic with very small _____ .
17. The new material could change how we fight _____ .
18. This new surface can help reduce the spread of _____ on items like phones.

Answer

Multiple Choice: 1. Human parainfluenza virus type 3 2. 94% 3. They can be harmful to the environment
4. Car seats 5. Arrangement of tiny pillars 6. Food packaging and public transport

True-False: 7. False 8. False 9. True 10. False 11. True 12. False

Gap-Fill: 13. desks 14. face 15. important 16. features 17. viruses 18. disease

CATEGORY

1. Health - LEVEL1

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