

# Virus Pathology Challenge

You will need: a copy of the pattern page, scissors

## How to set up:

- 1) Copy the pattern page onto card stock, if possible, or on regular paper.
- 2) BEFORE cutting the cards, use the answer key to write the name of each virus on the back. (Don't press too hard, you don't want letters showing through!)
- 3) Cut apart the cards.
- 4) Make slips of paper with the names of the viruses. (You could also make a copy of this page and cut up the answer key.)

## What to do:

You will play the part of a medical student who has to pass an exam on virus pathology. You will have an opportunity to study the cards and try to memorize what the viruses look like. These are all actual images of viruses taken using Transmission Electron Microscopy (TEM). These images are not shown in correct proportion to each other, so you can't tell which ones are larger or smaller than the others. They only focus here is on shape, texture and patterns. (These are "famous" micrographs that were taken some time ago and have circulated in the public domain for a number of years.) Notice that in one of the photos arrows have been added so you know which shapes are the viruses.

Lay out all 12 cards, face up. Go down the line and try to remember the identity of each. After guessing, turn the card over to check your answer. If you are correct, leave the card with the word side up. If you are wrong, turn the card back over to the front side again. Continue down the line. When you've done the last card, count how many you got right. Did you pass the exam?

Coronavirus	<i>Varicella zoster</i> (chickenpox)	Mumps
Ebolavirus	Smallpox	Cowpox
Influenza	Rabies	Polio
Hepatitis A	Hepatitis B	Hepatitis C

11 or 12 correct: A

10 correct: B

9 correct: C

8 correct: D

7 or less: not passing, take the exam again

NOTE: Grading has to be tough-- lives might depend on you making the right diagnosis!

# VIRUS PATHOLOGY BINGO

You will need: a copy of the pattern page, scissors

## How to set up:

- 1) Make a copy of the pattern page for each player.
- 2) BEFORE cutting the cards, use the answer key to write the name of each virus on the back. (Don't press too hard, and don't use a marker or pen that will bleed through.)
- 3) Cut apart the cards.
- 4) Make slips of paper with the names of the viruses. (You could also make a copy of this page and cut up the answer key.)
- 5) Put the slips of paper into a bowl or box.

## How to play:

- 1) Each player chooses 9 of their 12 cards and sets them out in a 3 by 3 square.
- 2) Someone draws a slip of paper out of the bowl or box and reads it out loud. Players try to remember which picture shows that virus. They choose a square and turn it over. If they are correct, they leave it turned over. If they are not correct, that slip of paper is removed from the board. (They will now only have 8, making it a bit harder to get a bingo.)
- 3) Play continues like this with someone calling out the name of a virus and players choosing one square to turn over. (It is likely that by the end of the game, some players might be missing several of their pieces.) As soon as someone gets three in a row, the game is over.
- 4) Start a new game, with players making a fresh selection of squares, choosing some they didn't use before.

