

## Pay It Forward

In the movie *Pay It Forward*, Trevor McKinney was given the following social studies assignment:

*Think of an idea for world change and put it into practice!*



Trevor's idea was to do something really good for three people. When they asked what they could do to pay him back, he tells them to "pay it forward", which means that they are to do something really nice for three other people.

Trevor figured out that those three people would do something good for a total of nine others. Those nine would do something good for 27 others, and so on. He was sure that before long there would be good things happening to billions of people around the world.

At stage 1 of the process, Trevor completes three good deeds. How does the number of good deeds grow from stage to stage? How many good deeds would be completed at stage 5? Describe a function that would model the Pay It Forward process at *any* stage.