Classroom Activity

10 Big Question: How Can We Feed the World Sustainably?

The Genetic Modification (GM) Process
The Answers - Teacher’s Copy

1. Scientists discover a gene and find out how it affects the phenotype of plants
2. Scientists transform a gene into crop plants
3. Scientists test GM plants in the glasshouse to see if they have the desired characteristics
4. Scientists test GM plants in the field to see if they perform as well or better than plants without the added gene
5. Plant breeders cross the GM crop plants they receive from scientists with commercial crop plant varieties used by farmers
6. Government authorities approve the GM crop to be sold to farmers