



Chemistry Learning Journey at Manor High School

Year 11
Chemistry
Exam

How has science improved our uses of resources?
How can we use alternative ways to metals from the earth?
How can reduce our carbon foot print?
How are organic molecules used to make other materials?
How can we analyse substances?

How can we reduce damage to our Earth?
How can we produce water where there is limited supply?
How has our atmosphere developed?
How are organic sources used as fuels?
What is dynamic equilibrium?

YEAR
11

How does structure relate to properties of a substance?
How do we use science knowledge to explain extraction of metals?
What happens to energy in a chemical reaction?
How do we calculate bond energy?

Opportunity to purchase a KS4 revision guide

How do atoms bond?
What is the mole and how do we apply it?
How does electrolysis purify metals?
What happens to energy in a chemical reaction?
Year 10 Chemistry Paper 1 Exam
What factors affect rates of reaction?

YEAR
10

How can we conserve resources?
How is crude oil separated?
How have humans contributed to the greenhouse effect?
How do we make a soluble salt?
What is the reactivity series?
How have scientific ideas about the periodic table developed?

Y9 Chemistry exam

How do we test for an unknown substance?
How is drinking water made safe?
How has man depleted Earth's resource?
How has our atmosphere developed?
How do we extract metals?
What is conservation of mass?
What is the nuclear model of the atom?

YEAR
Y9

What is thermal decomposition?
How do metal compounds react?
How can we predict patterns in reactivity?

What are the problems of combustion?

What happens in rusting?
What is the reactivity of metals?
How does reactivity of a metal determine its use?
What properties do new materials have?

Year 8 Chemistry exam

What are the products of combustion?
How do we represent chemical reactions?
What are the properties of metals and non metals?
What are atoms made from?

What are the types of chemical reactions?
What happens to atoms during chemical reactions?
How is the Periodic table organised?

YEAR
Y8

What are acids and alkalis?
What is the composition and structure of the Earth?
How do rocks form?

What is a chemical reaction?

How do metals react with acids?
How do acids and alkalis react?
What is the composition of the atmosphere?
Year 7 Chemistry exam

How do we separate mixtures?

What is a pure substance?
What are the differences between atoms, elements and compounds?
What happens to particles during changes of state?
Health and safety induction

YEAR
Y7

How do we represent elements and compounds?
How are particles arranged in gases, solids, and liquids?
What is all matter made from?
Opportunity to buy a KS3 revision guide