

Year Plan fysik kemi grade 9 2023 2024



Topic	Week number
Radioactivity	
Introduction. The history of radioactivity	32
Properties of 3 kinds, atomic reactions for 3 kinds.	33
Experiments related to properties. Penetration. Background radiation	34
Ionising radiation and health. Uses of radioactivity. Risks of radioactivity. Experiments linked to this theme.	35
Half life. Uses and modelling.	36
	37 London
Nuclear energy. Advantages and disadvantages. The role it could play in climate change.	38

The role of radioactivity in the Earth's history. Albedo effect, and how volcanic activity created the greenhouse effect.	39
Earthquake in Japan Waves Radioactivity Linked to volcanic work in geo	40
Exam and fællesforløb in 2 areas: consider earthquake in Japan, sustainable production of energy, climate change in relation to pollution	41
	42 half term
	43 exams
A Journey to Space	
A trip to mars intro Defining force, speed and acceleration. Force Diagrams Newton's 3 laws	44
Newton's 3 laws, weight and mass	45
Gravity. Free fall. Atmospheric pressure define. Atmospheric pressure on Mars, and issues this causes. For example, sublimation of water.	46
Terraforming Mars. Issues relating to magnetic field, water, pressure, travel, greenhouse effect, fertile soil.	47
	48 emneuge
Test and fælles forløb	49
Test and fælles forløb	50
Metals and Ions	
Metals and ions. Recap on bonding	51
Exams	2
Metals' properties Metals in use Electricity and metals with recap on electricity.	3
Covalent bonding	4

Electrolysis Electricity and metals with recap on electricity. Manufacturing metals	
Climate Change	
Recap on waves Greenhouse effect	5
Global warming and consequences Effects on weather (Geo) and life (Bio)	6
Holiday	7
Energy	
Energy: Types and energy changes, and laws.	8
Heat, and how heat moves. Density. Weather and how this is driven by differences in heat.	9
Golf stream how it works. Modelling of. Link to climate change.	10
Fællesforløb on climate change in Greenland	11
Fællesforløb on climate change in Greenland	12
Fællesforløb on Earthquake in Japan: Linking work on waves, geography, radiation, and biology	13
Fællesforløb on Earthquake in Japan: Linking work on waves, geography, radiation, and biology	14
Fossil Fuels and Polymers	
Distilling of oil. Link to Biology and Geography Polymers and plastics	15 and 16
Used as recap on material if time allows	17
Used as recap on material if time allows	18