



## **Junior Tukkies Gr.12 Winter School 2020**

## **Physical Sciences**

NOTE: Links to study material, worksheets, memo's and videos will become available on this programme at the start of every two-week topic.

Week	Activity Watch video 🖶 Print Practice
Week 1& 2:	1 July – 12 July
Physical Sciences: Chemical equilibrium	Study Material  Worksheet
	Memo Memo
	Watch the following videos:  Chemical equilibrium 1 (Equilibrium and Kc) Chemical equilibrium 2 (Le Chatelier's principle) Chemical equilibrium 3 (Graphs)
	Chemical equilibrium 4 (Difficult questions)
	Saturday feedback video:  11 July Watch a video on answers to frequently asked questions
Week 3 & 4: 13 July – 26 July	
Physical Sciences: Work, energy and power	Study Material Worksheet Memo
	Watch the following videos:  Work, energy and power 1 (Work)
	<ul> <li>Work, energy and power 2 (Work-energy principle)</li> <li>Work, energy and power 3 (Conservative forces. power)</li> <li>Work, energy and power 4 (Work and momentum)</li> </ul>
	Saturday feedback video:
	18 & 25 July Watch a video on answers to frequently asked questions
Week 5 & 6:	27 July to 9 August
	Saturday feedback video:
Physical Sciences:	1 & 8 August Watch a video on answers to frequently asked questions  Study Material
Acids and Bases	Worksheet
	Memo
	Watch the following videos:  Acids and bases 1 (Acids and bases)  Acids and bases 2 (Writing equations)  Acids and bases 3 (pH)
	Acids and bases 4 (Hydrolysis and titrations)

	Saturday feedback video:
	1 & 8 August Watch a video on answers to frequently asked questions
	1 & 6 August Water a video on answers to frequently asked questions
Week 7 & 8:	10 August – 23 August
Physical Sciences:	Study Material
Mole calculations	Worksheet
	Memo
	Watch the following videos:
	Mole calculations 1 (Stoichiometry)
	Mole calculations 2 (Limiting reactant)
	Mole calculations 3 (Two reactions)
	Mole calculations 4 (Percentage purity and yield)
	Saturday feedback video:
	15 & 22 August Watch a video on answers to frequently asked questions
Week 9: 24 August – 30 August	
Physical Sciences:	Study Material
Maths in Physics	Worksheet
•	Memo
	Watch the following videos:
	Maths in Physics 1 (Variables and relationships)
	Maths in Physics 2 (Graphs)
	Saturday feedback video:
	29 August Watch a video on answers to frequently asked questions
Week 10: 31 August – 5 September	
Physical Sciences:	Study Material
Exam preparation	Worksheet
	Memo
	How to prepare for Physics
	How to prepare for Chemistry
	Saturday feedback video:
	5 September Watch a video on answers to frequently asked questions

