

**PHYSICAL  
SCIENCE**

**MULTIPLE-CHOICE  
QUESTIONS**

**FISIESE  
WETENSKAP**

**MEERVOUDIGEKEUSE  
VRAE**

**Answers Antwoorde**  
**Gr 12**

**2024**



Secondary Schools  
Directorate



education

Department of  
Education  
FREE STATE PROVINCE

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## Newton's laws / Newton se wette

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	B	13	D	25	D	37	A
2	D	14	B	26	A	38	B
3	A	15	D	27	B	39	A
4	C	16	A	28	C	40	B
5	B	17	B	29	A	41	D
6	A	18	A	30	C	42	D
7	A	19	C	31	C	43	A
8	A	20	D	32	A	44	B
9	D	21	C	33	D	45	A
10	C	22	D	34	C		
11	B	23	B	35	D		
12	B	24	B	36	A		

## Vertical motion / Vertikale beweging

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	A	9	C	17	C	25	C
2	C	10	A	18	A	26	B
3	A	11	D	19	D	27	B
4	B	12	D	20	A	28	D
5	A	13	B	21	C	29	A
6	D	14	B	22	D	30	B
7	C	15	C	23	B	31	D
8	B	16	D	24	B		

## Momentum &amp; impulse / Momentum &amp; impuls

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	B	10	A	19	D	28	B
2	C	11	D	20	C	29	B
3	C	12	D	21	C	30	C
4	C	13	C	22	B	31	D
5	C	14	B	23	A	32	D
6	D	15	C	24	B	33	B
7	A	16	D	25	C	34	B
8	C	17	D	26	A	35	D
9	B	18	C	27	D	36	B

## Work, energy &amp; power / Arbeid, energie &amp; drywing

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	D	11	B	21	D	31	C
2	D	12	A	22	B	32	B
3	B	13	C	23	B	33	B
4	C	14	B	24	D	34	D
5	D	15	D	25	A	35	D
6	C	16	C	26	C	36	D
7	D	17	A	27	B	37	B
8	B	18	A	28	C		
9	D	19	B	29	A		
10	B	20	B	30	C		

## Doppler

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	C	8	A	15	B	22	A
2	C	9	A	16	A	23	B
3	A	10	A	17	B	24	C
4	A	11	C	18	A	25	C
5	A	12	C	19	A	26	C
6	D	13	A	20	C	27	B/D
7	D	14	C	21	D	28	A

## Electrostatics / Elektrostatika

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	D	10	D	19	B	28	A
2	D	11	C	20	C	29	B
3	D	12	A	21	D	30	D
4	C	13	A	22	C	31	D
5	B	14	B	23	B	32	C
6	D	15	A	24	A	33	B
7	D	16	B	25	D	34	D
8	B	17	A	26	A		
9	C	18	C	27	A		

## Electric circuits / Elektriese stroombane

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	C	10	D	19	D	28	B
2	B	11	A	20	A	29	A
3	B	12	C	21	A	30	C
4	C	13	C	22	C	31	A
5	D	14	D	23	B	32	D
6	C	15	C	24	C	33	A
7	A	16	C	25	B	34	A
8	A	17	D	26	D	35	B
9	A	18	B	27	D		

## Electrodynamics / Elektrodinamika

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	B	8	A	15	B	22	D
2	D	9	D	16	C	23	C
3	C	10	C	17	D	24	D
4	C	11	C	18	D	25	A
5	D	12	C	19	D	26	C
6	A	13	B	20	C	27	A
7	A	14	D	21	D	28	C

## Optical phenomena / Optiese verskynsels

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	D	12	A	23	A	34	A
2	D	13	B	24	B	35	C
3	A	14	C	25	A	36	B
4	A	15	B	26	D	37	C
5	C	16	B	27	B	38	D
6	A	17	A	28	B	39	C
7	C	18	C	29	C	40	D
8	D	19	C	30	D	41	D
9	B	20	C	31	B	42	A
10	C	21	B	32	A		
11	A	22	C	33	C		

## Organic chemistry / Organiese chemie

## Nomenclature / Nomenklatuur

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	B	16	C	31	D	46	C
2	D	17	B	32	A	47	B
3	B	18	C	33	B	48	C
4	C	19	A	34	B	49	D
5	A	20	B	35	B	50	C
6	D	21	C	36	A	51	D
7	A	22	A	37	D	52	D
8	B	23	C	38	B	53	D
9	B	24	A	39	C	54	A
10	C	25	A	40	D	55	B
11	B	26	B	41	B	56	A
12	B	27	A	42	C	57	D
13	C	28	B	43	C	58	D
14	C	29	A	44	C		
15	B	30	B	45	C		

## Physical properties / Fisiese eienskappe

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	B	5	D	9	D	13	D
2	C	6	D	10	C	14	D
3	A	7	A	11	D		
4	A	8	B	12	B		

## Reactions / Reaksies

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	B	10	A	19	C	28	C
2	C	11	B	20	D	29	A
3	C	12	A	21	A	30	B
4	B	13	B	22	D	31	D
5	C	14	D	23	C	32	B
6	D	15	C	24	C	33	C
7	C	16	C	25	D	34	B
8	A	17	C	26	A	35	A
9	A	18	D	27	A		

## Rate of reaction / Reaksietyempo

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	C	14	D	27	B	40	B
2	B	15	C	28	A	41	D
3	B	16	B	29	A	42	B
4	D	17	A	30	A	43	D
5	D	18	C	31	C	44	D
6	C	19	D	32	D	45	B
7	C	20	B	33	B	46	C
8	A	21	B	34	A	47	A
9	A	22	C	35	A	48	C
10	D	23	C	36	D	49	C
11	B	24	C	37	B	50	B
12	C	25	B	38	D		
13	C	26	B	39	D		

## Chemical equilibrium / Chemiese ewewig

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	A	15	D	29	A	43	C
2	C	16	D	30	C	44	C
3	C	17	C	31	C	45	B
4	A	18	C	32	C	46	B
5	A	19	B	33	A	47	B
6	B	20	C	34	A	48	C
7	B	21	C	35	A	49	A
8	D	22	C	36	C	50	D
9	A	23	B	37	B	51	D
10	B	24	C	38	C	52	C
11	A	25	B	39	C	53	B
12	D	26	B	40	B	54	D
13	A	27	C	41	D	55	C
14	D	28	D	42	D		

## Acids &amp; bases / Sure &amp; basisse

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	B	9	A	17	D	25	A
2	A	10	C	18	B	26	D
3	A	11	B	19	B	27	D
4	D	12	C	20	B	28	C
5	A	13	B	21	A	29	D
6	B	14	B	22	B	30	C
7	D	15	B	23	C	31	A
8	B	16	B	24	C		

## Galvanic cells &amp; redox reactions / Galvaniese selle &amp; redoksreaksies

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	C	15	C	29	B	43	D
2	D	16	B	30	C	44	A
3	C	17	C	31	A	45	C
4	B	18	B	32	B	46	B
5	B	19	D	33	D	47	D
6	B	20	A	34	B	48	C
7	A	21	D	35	A	49	A
8	C	22	B	36	D	50	A
9	D	23	D	37	C	51	A
10	B	24	D	38	A	52	A
11	A	25	D	39	C	53	A
12	B	26	D	40	A	54	B
13	C	27	C	41	D		
14	B	28	A	42	D		

## Electrolytic cells &amp; redox reactions / Elektrolitiese selle &amp; redoksreaksies

Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord	Number Nommer	Answer Antwoord
1	D	9	C	17	C	25	D
2	C	10	C	18	B	26	B
3	D	11	A	19	D	27	B
4	B	12	B	20	D	28	D
5	D	13	D	21	C	29	D
6	C	14	D	22	A		
7	D	15	C	23	A		
8	D	16	C	24	A		

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