

# 1 Atoombouw en periodiek systeem

## OPDRACHTEN

1

### Atoombouw

Maak bij deze opdracht gebruik van Binas tabel 25A en 99. Leg steeds uit hoe je aan je antwoord komt.

- Hoeveel protonen heeft een neonatoom?  
Het atoomnummer van neon is 10. Neon heeft dus tien protonen.
- Hoeveel elektronen heeft een zilveratoom?  
Het atoomnummer van zilver is 47. Een zilveratoom heeft dus 47 protonen en ook 47 elektronen.
- Hoeveel neutronen heeft O-18?  
Het atoomnummer van zuurstof is 8, het massagetal van O-18 is 18. Het aantal neutronen is gelijk aan het massagetal minus het atoomnummer:  
 $18 - 8 = 10$  neutronen.
- Van welk(e) element(en) bestaan atomen met 23 protonen?  
Het aantal protonen is gelijk aan het atoomnummer. Elk element heeft een uniek atoomnummer. Atoomnummer 23 is van vanadium, V.
- Van welk(e) element(en) bestaan atomen met massagetal 109?  
Omdat het aantal neutronen in een kern kan variëren, bestaan er van de meeste elementen meerdere isotopen met verschillende massagetallen. Verschillende elementen kunnen dus ook atomen hebben met hetzelfde massagetal. Opzoeken in Binas tabel 25A wijst uit dat er van zilver en cadmium (Ag en Cd) isotopen met massagetal 109 bestaan.

2

### Periodiek systeem

In het periodiek systeem zijn de elementen in groepen en perioden gerangschikt. Gebruik bij deze opdracht Binas tabel 99.

- Geef de symbolen van alle elementen in groep 10.  
Ni, Pd, Pt, Ds
- Geef de symbolen van alle elementen in periode 3.  
Na, Mg, Al, Si, P, S, Cl, Ar
- Hoe heten de elementen in groep 17?  
halogenen
- In welke groep staan de edelgassen?  
groep 18
- Welke periode bevat geen metalen?  
periode 1

3

### Isotopen

Om aan te geven welke specifieke isotoop wordt bedoeld, zijn drie notaties in symbolen mogelijk.

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