

4.3 AKTIVITI PERBINCANGAN

Faktor-faktor yang mempengaruhi kadar tindak balas

Factors affecting the rate of reaction **Praktis Kendiri**

PBD
Kontekstual

Buku teks m.s. 125 – 134

Lengkapkan ruang dalam rajah di bawah dengan perkataan yang betul tentang faktor-faktor yang mempengaruhi kadar tindak balas./Complete the spaces in the diagram below with the correct words about the factors affecting the rate of reaction. SP4.2.1 TP2

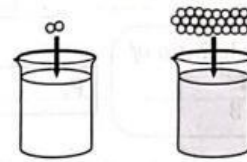
Banyak More	Luas permukaan Surface area	Meningkat Increases	Laju Faster	Besar Larger
Tenaga kinetik Kinetic energy	Memampatkan Compress	Isi padu Volume	Berlanggar Collide	Kerap Frequently

1 Saiz bahan tindak balas pepejal The size of solid reactants



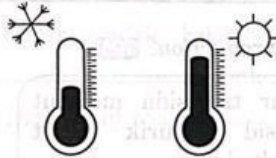
Semakin kecil saiz bahan tindak balas pepejal, semakin _____ jumlah _____ bahan yang terdedah. Maka, kadar tindak balas _____.
The smaller the size of solid reactants, the _____ the total _____ of the exposed substance. Thus, the rate of reaction _____.

2 Kepekatan bahan tindak balas The concentration of reactants



Semakin pekat suatu bahan tindak balas, semakin _____ bilangan zarah per unit _____. Maka, kadar tindak balas _____.
The more concentrated a reactant, the _____ the number of particles per unit _____. Thus, the rate of reaction _____.

3 Suhu bahan tindak balas The temperature of reactants



Semakin tinggi suhu bahan tindak balas, zarah-zarah mengandungi lebih banyak _____ dan bergerak dengan lebih _____. Maka, kadar tindak balas _____.
The higher the temperature of reactants, the particles contain more _____ and move _____. Thus, the rate of reaction _____.

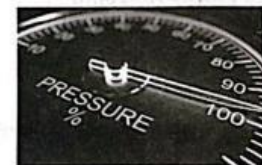
Faktor-faktor yang mempengaruhi kadar tindak balas Factors affecting the rate of reaction

4 Mangkin/Catalysts

Mangkin _____ kadar tindak balas.
Catalyst _____ the rate of reaction.

5 Tekanan/Pressure

Penambahan tekanan akan _____ gas. Zarah-zarah gas _____ dengan lebih _____. Maka, kadar tindak balas _____.
Increasing the pressure will _____ the gas. Gas particles _____ more _____. Thus the rate of reaction _____.



AKTIVITI HANDS-ON

Eksperimen Wajib 6 – 9: Faktor-faktor yang mempengaruhi kadar tindak balas (Buku Suplemen: m.s. 30 – 45).
Compulsory Experiment 6 – 9: The factors affecting the rate of reaction (Supplementary Book: pp. 30 – 45).