Classe de 5ème.

Cours. Thème 1

Organisation et transformations de la matière Chapitre 1.

Décrire les propriétés et les états de la matière.

DIVERSITÉ DES MATÉRIAUX. (Rappels de 6ème).

La matière qui nous entoure est très diverse : elle constitue les solides, les liquides et les gaz. On peut la classer en différentes catégories : Métal (fer, aluminium...), matière minérale (les roches), verre, matière céramique, matières plastiques, matière organique (produite par les êtres vivants ou fabriquée).

II. LES PROPRIÉTÉS PHYSIQUES

① Une propriété physique est une propriété que nous pouvons observer à l'œil nu ou à l'aide de mesures sans modifier la nature de la substance. Cela peut être la température d'ébullition, la température de fusion, la densité, la pression, la conductivité, la solubilité. Certaines propriétés physiques peuvent être perçues par nos sens : la couleur, la texture, la dureté, l'élasticité ...

② Les propriétés physiques peuvent être mesurées par des appareils : thermomètre, balance, etc.

III. LES PROPRIÉTÉS CHIMIQUES

Les propriétés chimiques permettent d'identifier une substance pure à l'aide d'une réaction chimique qui changera la nature de la substance. Elles décrivent la réaction d'une substance avec d'autres substances chimiques.

Ex : la combustion : réaction d'une substance avec le dioxygène.

IV. LES DIFFÉRENTS ÉTATS PHYSIQUES DE LA MATIÈRE

① La matière peut exister sous trois états physiques : solide, liquide, gaz.

Par exemple, l'eau existe sous les 3 états physiques : glace, eau liquide, vapeur d'eau.

① Chaque état physique dépend de 2 paramètres : la température et la pression.

vocabulaire

- 1. Matière
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- 3. Attend
- 4. Matière minérale
- 5. Matière organique
- 6. Propriété
- 7. Propriété physique
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- 9. la température de fusion,
- 10. la densité.
- 11. la pression,
- 12. la conductivité,
- 13. la solubilité
- 14. Thermomètre
- 15. propriétés chimiques
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Matiegravere Et Meacutemoire

Yan Bai

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