

III

X XI 2

1)

2)

X

3)

[4; 6].

[2].

X

XI 4 4

», «

», «

»

«

«	»	«	»
*	*	*	*
**	**	**	**
;	;	;	;

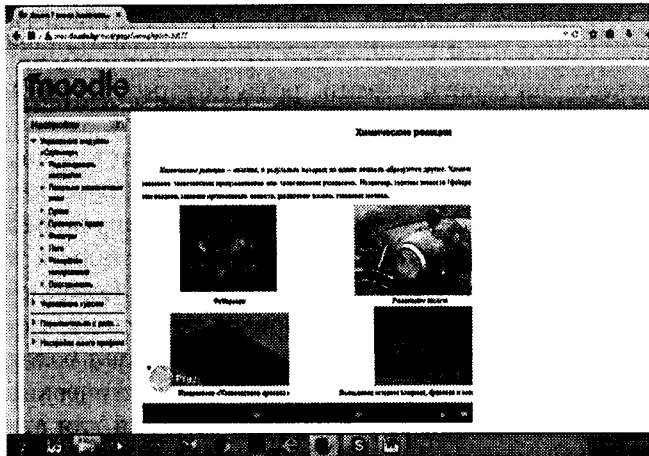
*

**

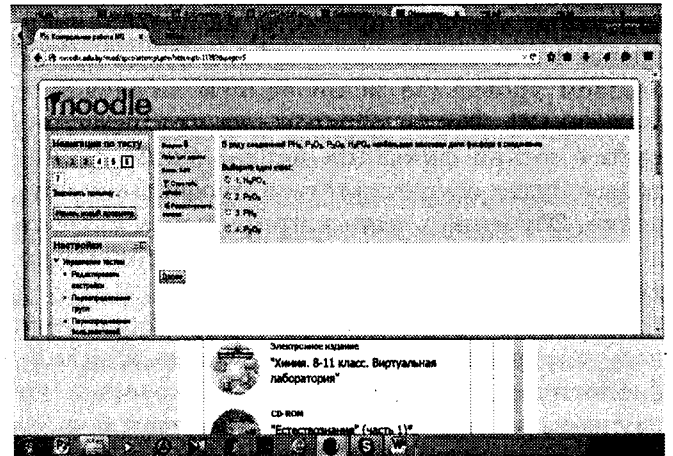
» « 2012-2014 2) (

3) (

1) (.1).

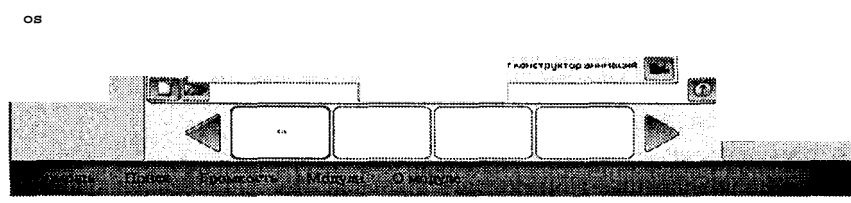
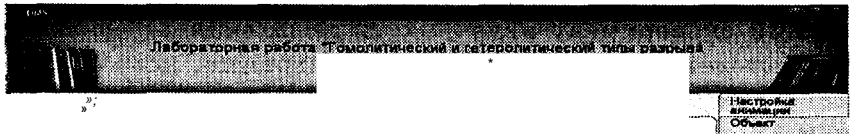


1 —



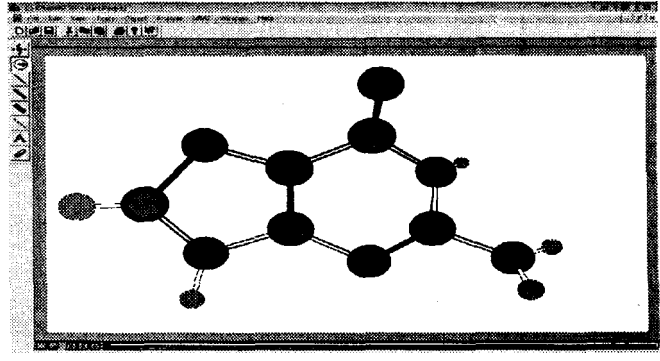
Moodle

> ; -
 , -
 (. 2).
 > 3 :
 - 1)
 -
 , 2) -
 > ;
 : , 3) -
).



2 —
 ; 4)
 (ChemOffice, MDL ISIS Draw Table Editor,

Chem3D.

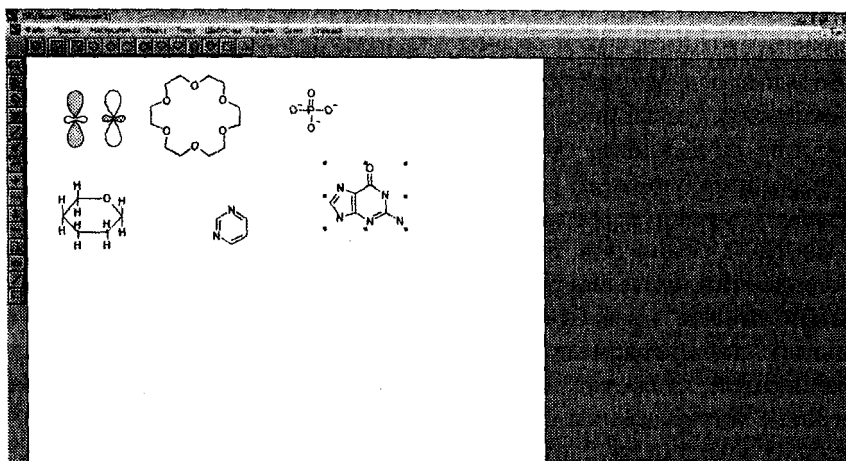


IX
)ffice —
) « 4
 » ChemDraw,
 ; 2) Chem3D,
 (. 3); 3)
 13 ChemFinder,

3 — Chem3D

MDL ISIS Draw

(.4).



4 —

MDL ISIS DRAW

[1].

(.6).

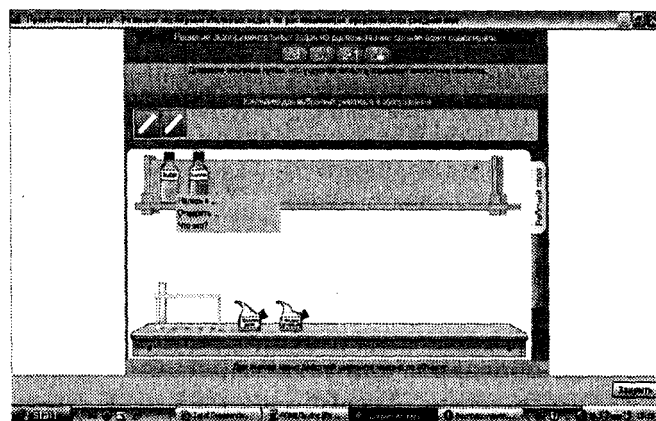
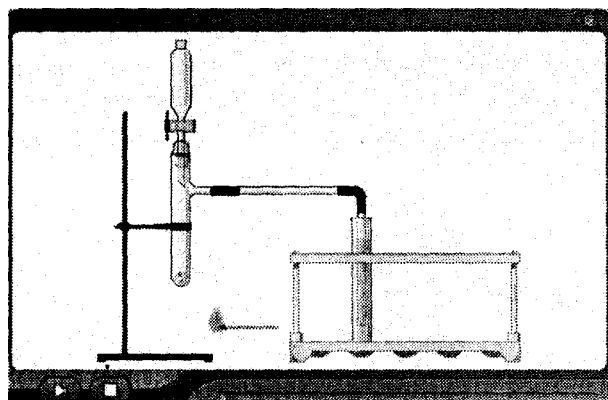


Рисунок 6 — Виртуальная лаборатория

(.5).



5 —

<<

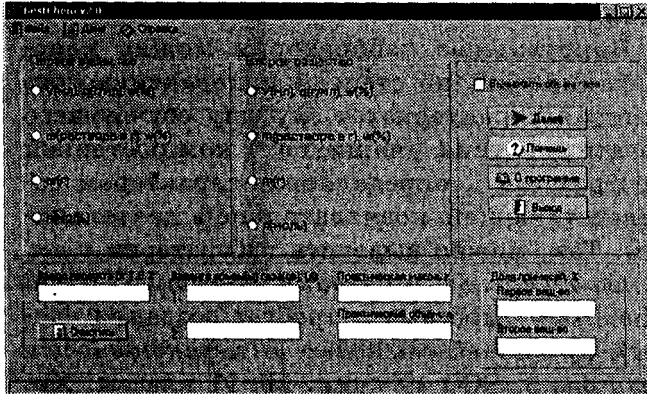
>>

Yenka

(- ,), ChemLab,

(. 10)

()



8 —

BestChem

ChemRef PC

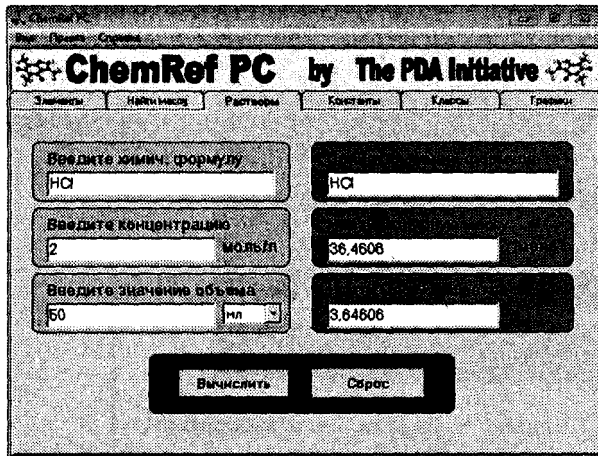
(. 9).

()



10 —

Chemix



9 —

ChemRef PC

Chemix

«1 : Ot

— SPLINT (

1100

pi

1

» . -----

I « - . - , - , - . - - . - t >, - - : - Moodle (« - »). - t [5] - [2] ^ - ' , . . // . — 2012. — 4. — .49-55. , . . // : . , 2011. — .3. — .187-192. « 2015/2016 » / : http://edu.gov.by/doc-3922543. — : 23.02.2016. 2020 // . — 2012. — 4. — .16-33. [: 1-02 04 03 ; 1-02 04 04 . (1-02 04 04-01) ; 1-02 04 06 . : . - .415/ . / [: ; -] ; - . — , 2012. — 19 . 2015/2016 / : http://edu.gov.by/doc-3946383. — : 23.02.2016. , . . / . . — , 2008. — 284 .