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N. Ibragimowa

TEHNOLOGIÝA

Umumy orta bilim berýän mekdepleriň
1-nji synpy üçin derslik

Gaýtadan işlenen we doldurylan
bäşinji neşir

*Özbegistan Respublikasynyň Halk bilimi ministrligi
tarapyndan tassyklanan*

„O‘QITUVCHI“ NEŞIRÝAT-ÇAPHANA DÖREDIJILIK ÖÝI
DAŞKENT – 2019

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– topar bolup işleýäris;

– amaly iş;

– pikirlenip jogap beryäris;

– ata-eneleriň kömeginde taýýarlaýarys;

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1-nji ders. TEHNOLOGIÝA YLMY BARADA DÜŞÜNJE

Surata ünsli serediň!

Şäheriň köçelerinden biri suratlandyrylypdyr. Suratda nämeleri görýärsiňiz ?

Ondan tebigy we adam tarapyndan döredilen zatlary tapyň we aýdyň.

ADAM DÖREDEN DÜNÝÄ

Bu otagdaky zatlar bize gerekmi? Olary kim taýýarlapdyr? Nähili önümlerden taýýarlanypdyr?

Suratlarda görkezilen zatlar nähili önümlerden taýýarlanypdyr? Adam bu zatlary taýýarlamak üçin önümleri nireden alypdyr?

Suratlary synlaň. Olarda suratlandyrylan käriň eýeleri nähili işi amala aşyrýarlar? Olaryň kärini aýdyň.

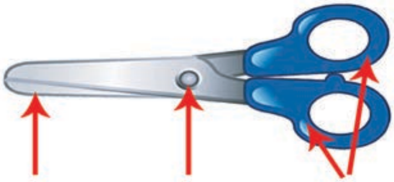
Her bir käriň eýesine gerek bolýan esbaplary saýlaň.

Tehnologiýa predmeti materialy dogry işläp taýýarlamagyň usullaryny öwredýär.

HOWPSUZLYK TEHNIKASY KADALARY

Gaýçy bilen işlemegiň kadasy

Gaýçy nähili gurlan?



Tygy Hyrly myh Halka

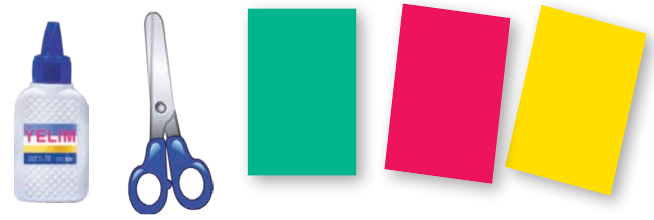
Näme üçin gaýçyny suratda görkezilişi ýaly edip uzatmaly?

Siz nähili pikir edýärsiňiz, näme üçin gaýçy gaba salnyp goýulýar?

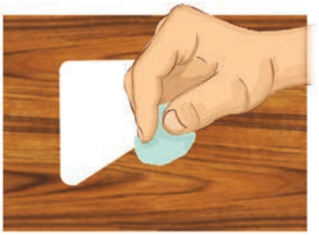
Gaýçy bilen uzyn kagyzdan üçburçluk we kwadrat şekilleri gyrkyň.

Iş stoly

Ýelim bilen işlemegiň kadasy



Ýelimi ortadan gyra tarap çalyň.



Artykmaç ýelimi süpürip alyň. Üstüne zat goýup guradyň.

Çotgany ulanyp bolansoň, ýuwup goýuň. Ýelim salynýan gaby ýapyk ýagdaýda saklaň.

2-nji ders. „ALTYN GÜÝZ“ GÖRNÜŞINI ÝASAMAK

Tebigat reňbe-reň we owadan. Adam döretmegi hemişe tebigatdan öwrenipdir.

Hany, serediň, tebigy materiallardan tebigatyň gözelligini nähili döretmek mümkin? Onda nähili tebigy materiallardan peýdalanylypdyr?

Pikirleniň. Näme üçin tebigaty goramak gerek?

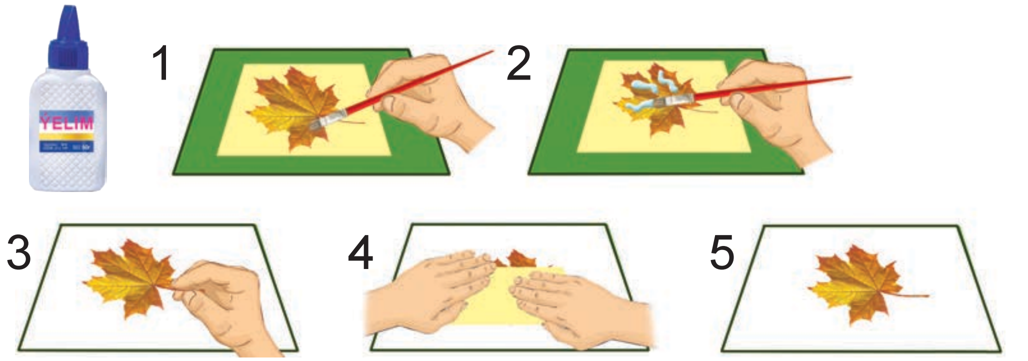
ÝAPRAK BILEN IŞLEMEK

Ýapraklary nähili guratmaly?

Dökülen ýapraklary ýygyp alyň.

Üstüne zat goýup guradyň.

Ýaprak bilen suratda görkezilen yzygiderlikde işläň.

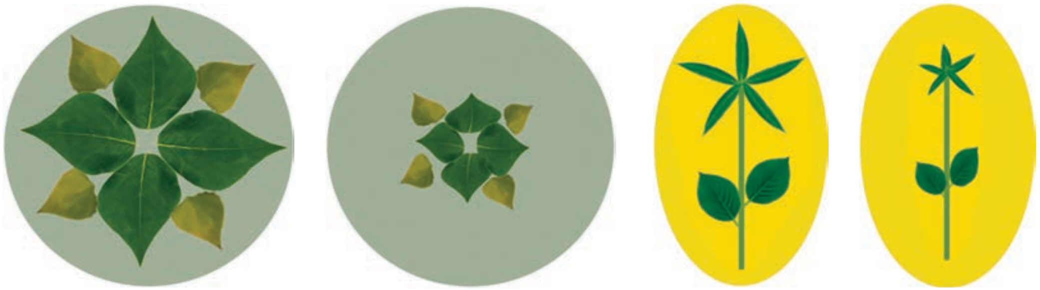


„ALTYN GÜÝZÜŇ“ GÖRNÜŞINI ÝAPRAKLARDAN EMELE GETIRMEK

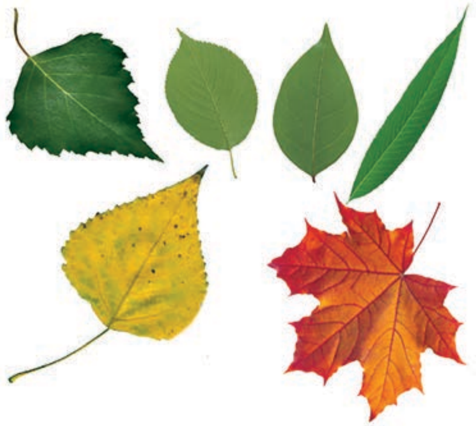
Özbaşdak ýagdaýda ýapraklardan „altyn güýzüň“ görnüşini ýasaň.

3-nji ders. ÝAPRAKLARDAN NAGYŞ KOMPOZISIÝASYNY DÖRETMEK

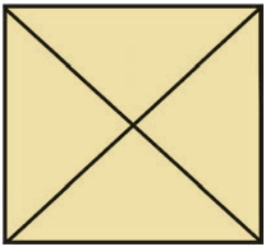
Suratda ýapraklardan düzülen nagyş kompozisiýasy berlen. Deňeşdiriň. Haýsysy size ýakdy? Näme üçin?



Kompozisiýa – şekillendirmäni bir-birine görä mälim tertipde ýerleşdirmekdir.



Nagyş düzmek üçin ýapraklary seçip alyň we nähili ýerleşdirmegi oýlap görüň.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Ýatda saklaň! Ýapragy gaýçy bilen gyrkmaň, onuň gerekli şekildäkisini saýlaň. Ýapyşdyranda ýelimi ýapragyň damarlaryna çalyň. Işi gutaranyňyzdan soň üstüne zat goýup guradyň.

4-nji ders. ÝAPRAKLARDAN ÖÝ GUŞUNYŇ ŞEKILINI ÝASAMAK

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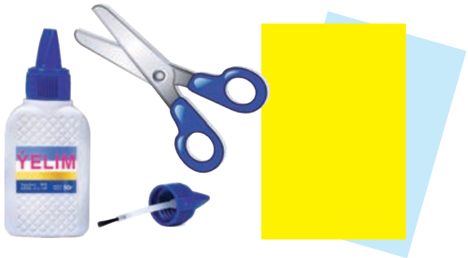
Özüňiz ýasajak boluň.

TEBIGY MATERIALLARDAN GUŞJAGAZYŇ ŞEKILINI ÝASAMAK



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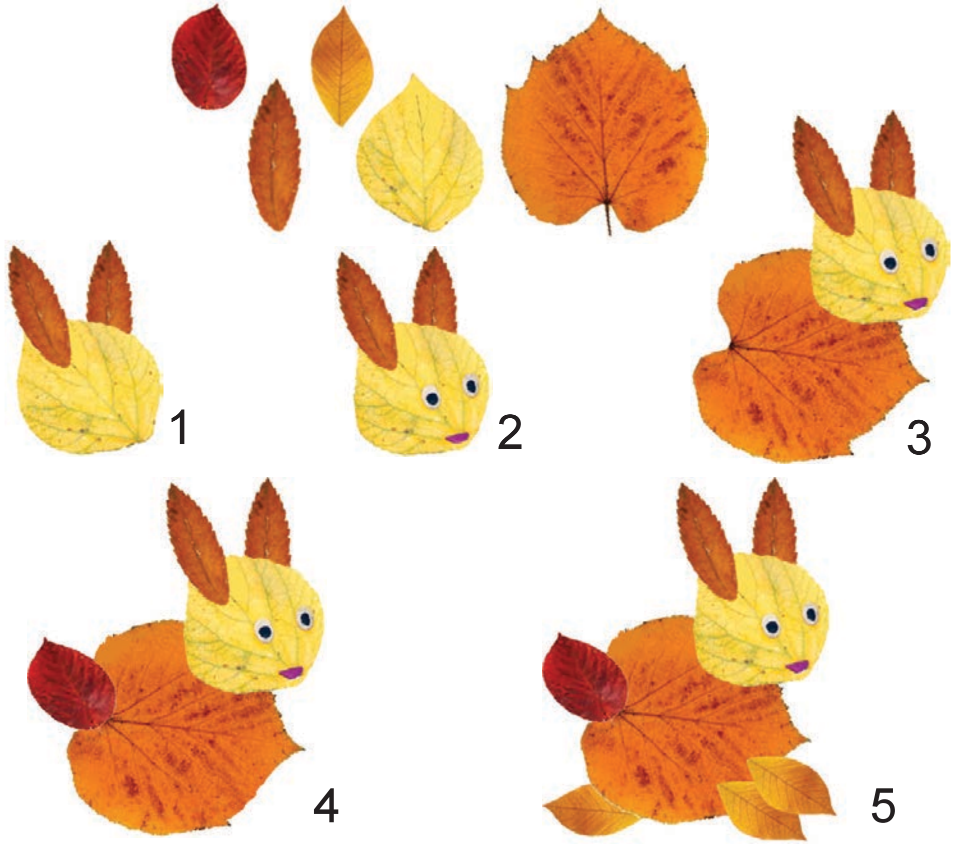
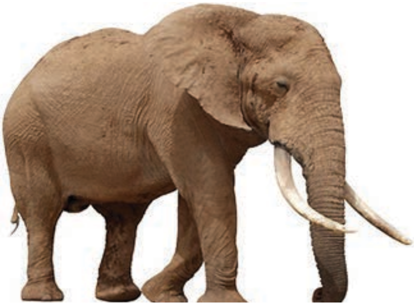
5-nji ders. ÝAPRAKLARDAN HAÝWANLARYŇ ŞEKILINI ÝASAMAK

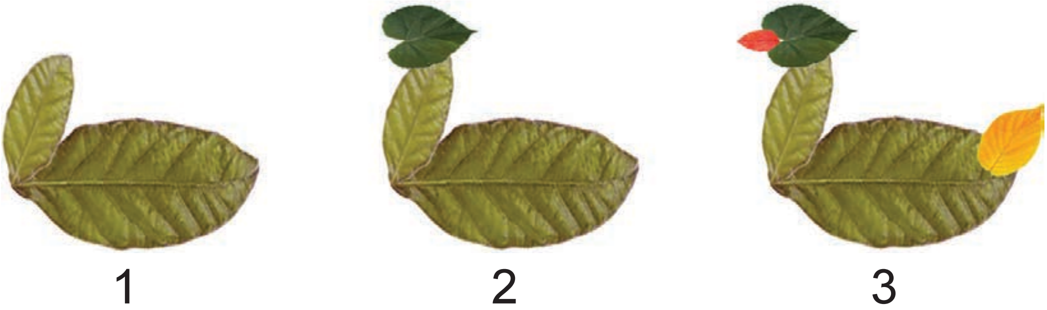


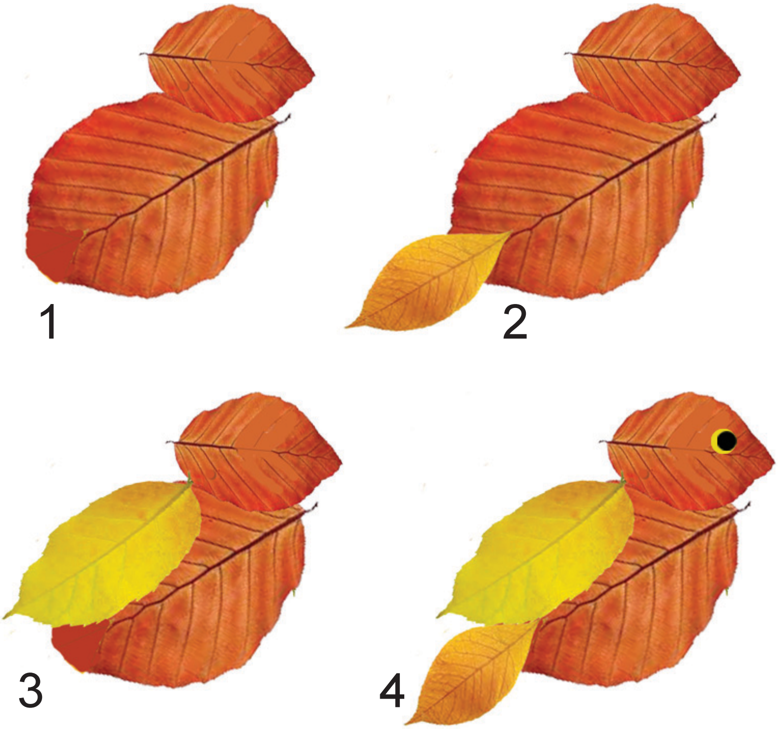
Suratda näme şekillendirilen? Ol nähili böleklerden ybarat? Towşan ýasamak üçin size nähili şekildäki ýapraklar gerek bolar? Ýasamagyň yzygiderligine üns beriň we özüňiz hem ýasaň.

DEŇEŞDIRIŇ

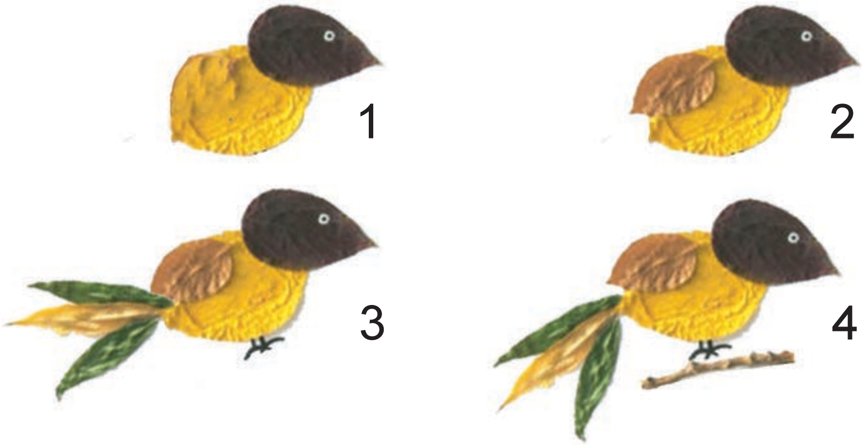


6-njy ders. ÝAPRAKLARDAN ÖÝ GUŞLARYNY ÝASAMAK





7-nji ders. TEBIGY WE DÜRLI MATERIALLARDAN GUŞLAR ÝASAMAK



Özüňiz ýasajak boluň.

8-nji ders. TEBIGY WE DÜRLI MATERIALLARDAN KOMPOZISIÝA DÖRETMEK

Ösümlikler tebigatyň bir bölegidir. Olar suratkeş-ussalaryň döredijilik etmekleri üçin dürli hili materiallary berýär.

Suratkeş-ussalar üçin tebigat nähili materiallary berýär? Aýdyp beriň.

Üns beriň! Şahalary, ýapraklary daragtdan ýolmaň we döwmäň. Diňe ýere gaçanlaryny alyň. Tebigaty goraň!

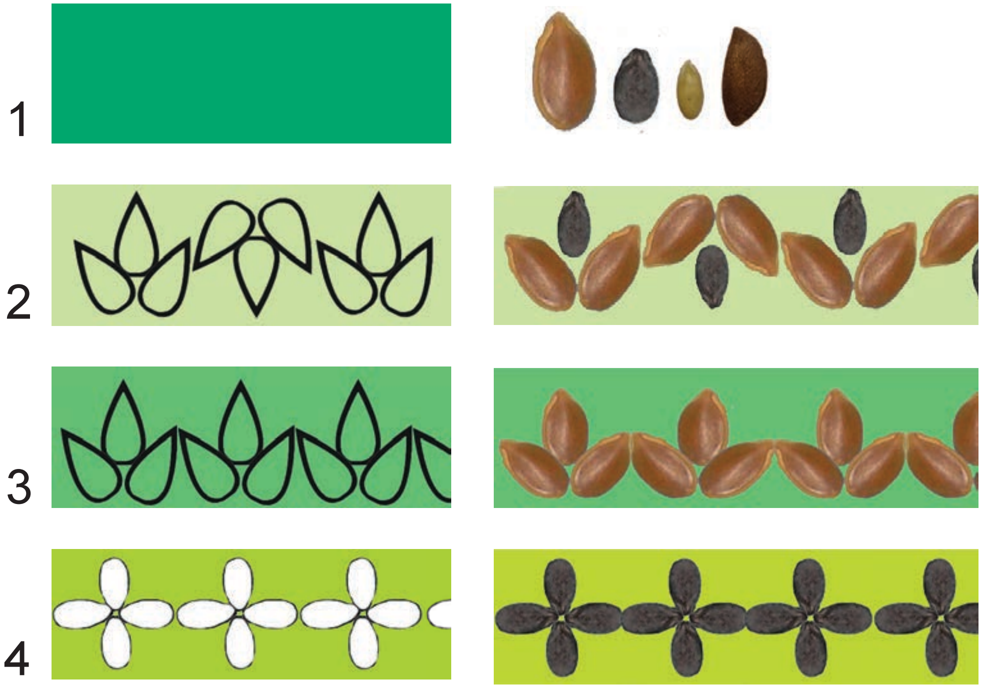
9-njy ders. TOHUMLARY ÝYGMAK WE SAKLAMAK

Tomusda we güýzde ösümlikler tohum emele getirýär. Suratda berlen tohumlar haýsy ösümlikleriň tohumydygyny tapyň.

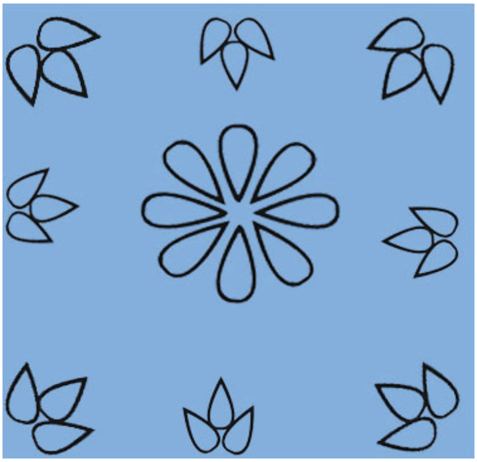
Ýatda saklaň! Tohumlary seýle çykanyňyzda ýygyp geliň, gowuja ýuwuň we guradyň. Soňra gaplarda saklaň.

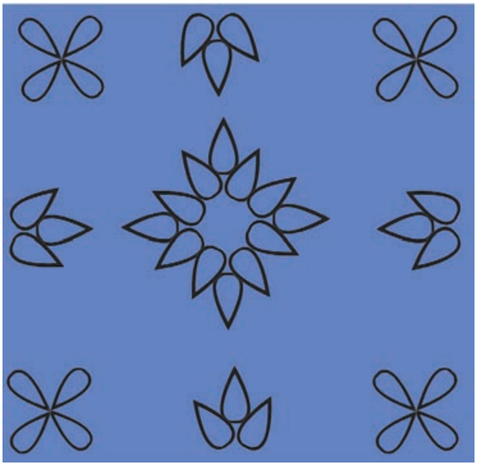
10-njy ders. TOHUMLARDAN NAGYŞ ÝASAMAK

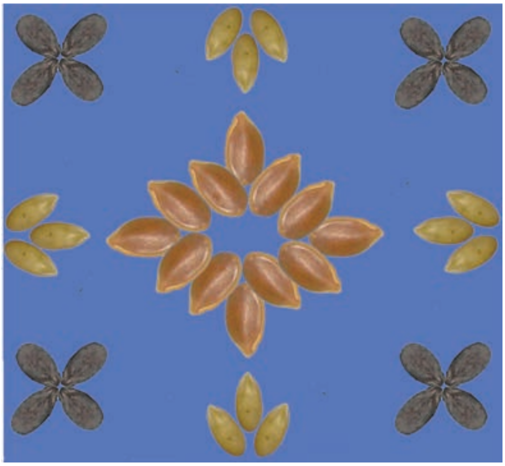
Reňkli kartondan ini 3 sm, uzynlygy 9 sm bolan gönüburçluk şekili gyrkyp alyp, galam bilen deň böleklere bölüşdiriň. Onuň içine nagyş çekiň, soňra ýelim ýa-da plastilin bilen tohumlary nagşyň üstüne ýapyşdyryp çykyň.



ÖZÜŇIZ ÝASAJAK BOLUŇ







11-nji ders. BALYGYŇ ŞEKİLİNİ ÝASAMAK

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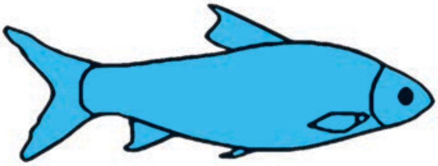

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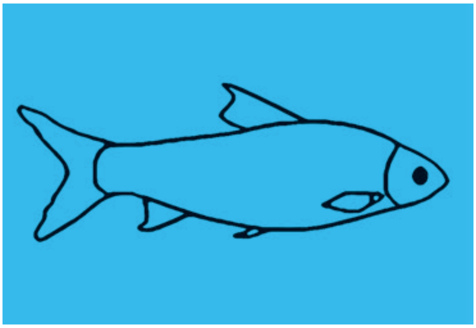

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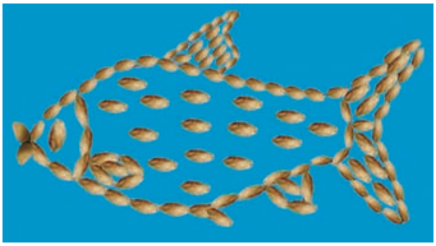
Özüňiz ýasajak boluň.



12-nji ders. ÇOPANTELPEK GÜLÜNI ÝASAMAK

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Özüňiz ýasajak boluň.

ÖZÜŇIZI BARLAŇ

Mugallymyňyzy we ata-eneňizi begendiriň. Nämäni bilýändigiňizi, ýerine ýetirip bilýändigiňizi görkeziň. Dogry jogaby saýlaň.

Tebigy materiallar bilen işläniňizde nähili esbaplary ulanýarsyňyz?

Tebigy bolmadyk material näme?

Haýsy suratda nagyş dogry ýasalypdyr?

Synpdaşlaryňyz bilen jogaplary ara alyp maslahatlaşyň.

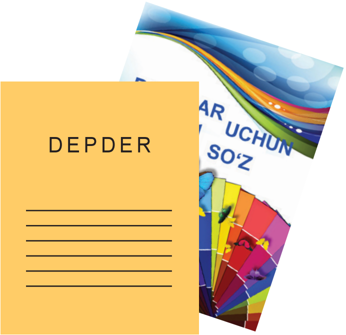
KAGYZ WE KARTON BILEN IŞLEMEK

Kagyz — bu bize gerek bolýan materialdyr.

Siz kagyzdan işlenen nähili zatlary bilýärsiňiz? Surata ünsli serediň. Bu zatlar kime we näme üçin gerek?

Kartony reňkli kagyzlaryňyzyň arasyndan tapyň. Nähili meňzeşlik bar? Dürli kagyzlary elläp görüň. Nämäni duýduňyz? Kagyzyň aýratynlyklaryny aýdyň.

13-nji ders. KAGYZ WE ONUŇ GÖRNÜŞLERI



Ýazuw kagyzy.

Gazet kagyzy.

Karton.

Surat kagyzy.

Sowgat dolanýan kagyz.

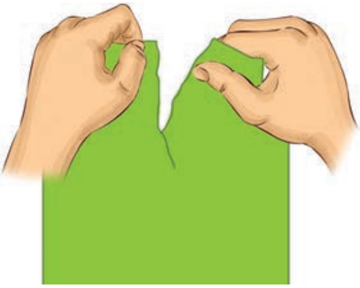
KAGYZ BILEN IŞLEMEK

Ülňi esasynda bellik etmek.

Gyrkmak

Gyrkyp aýyrmak

Dolamak



Ýyrtmak

Siziň pikiriňizçe, kagyz bilen ýene nä-
me etmek mümkin?

KAGYZY EPLEMEGIŇ WE GYRKMAGYŇ USULLARY

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Epläň.

Gyrkyň.

2

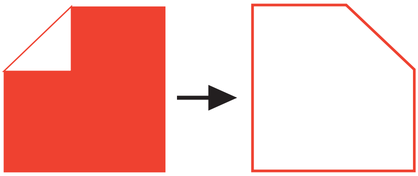
Epläň.

Gyrkyň.

3

Epläň.

Gyrkyň.

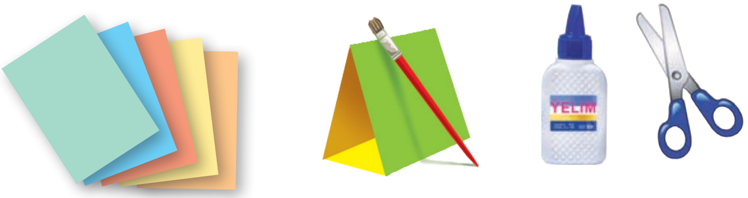
4 

Epläň.

Dolaň.

KIÇI USSA OÝNY

Gözelligi bilelikde döredýäris.
Siziň üçin aşakdakylar gerek bolýar:



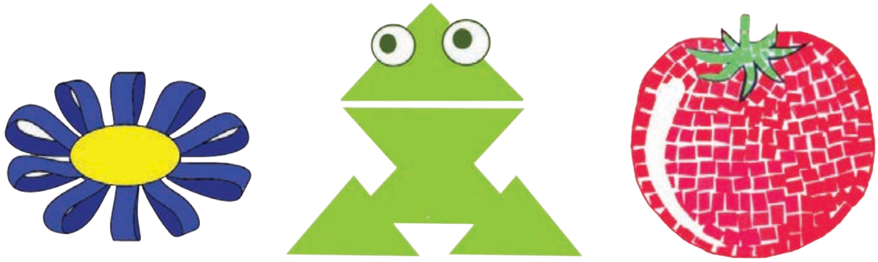
Indi siz kagyz bilen işlemegiň kadalaryny bilýärsiňiz.

Kagyzdan zatlar ýasanda olardan peýdalanyň.

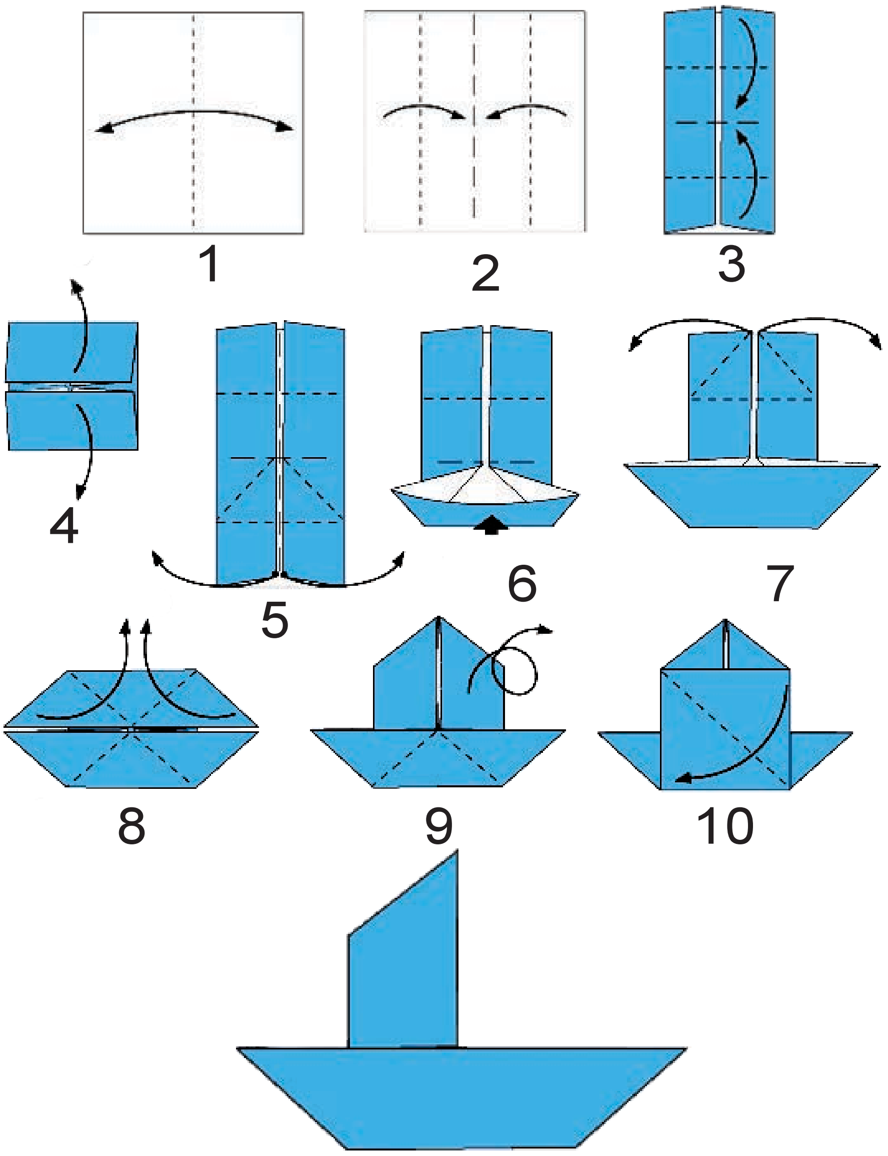
Kagyz listinden nämeler emele geldi?

Ugur tapyjylygyňyzy ulanyp, berlen şekillerden haýsy-da bolsa bir görnüş ýasajak boluň.

Aşakdakylar nämä meňzeýär?



GAÝYK ÝASAMAK



14-nji ders. KITAP ÜÇIN BELLIK ÝASAMAK

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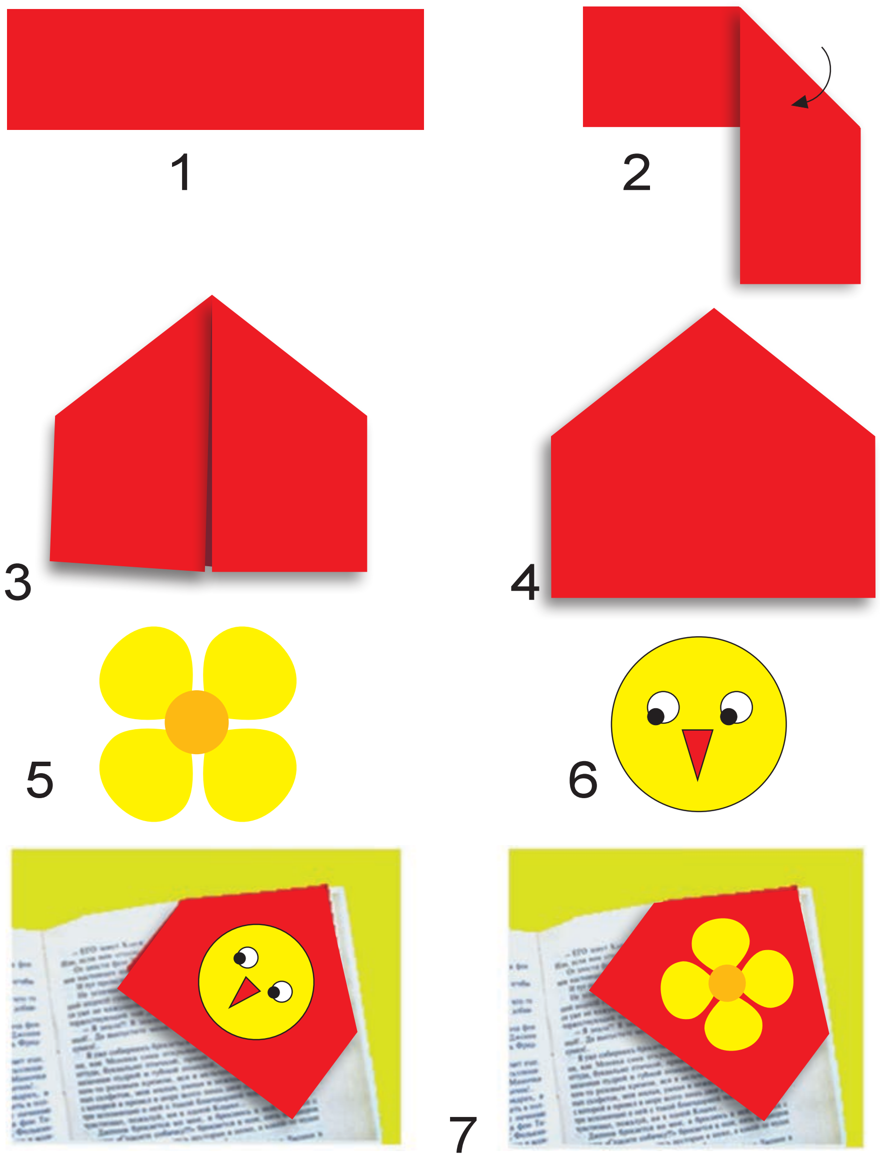
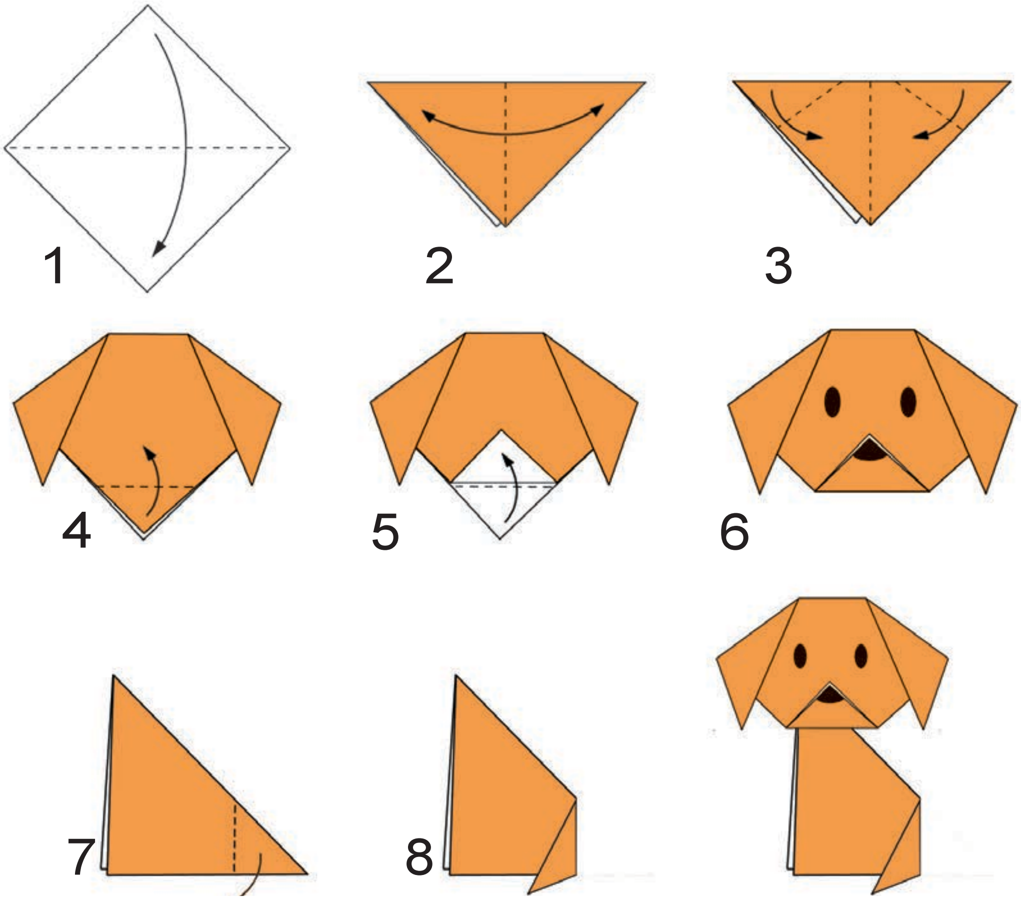


Bellik näme maksatda ýasalýar?
Ol size näme üçin gerek bolýar?

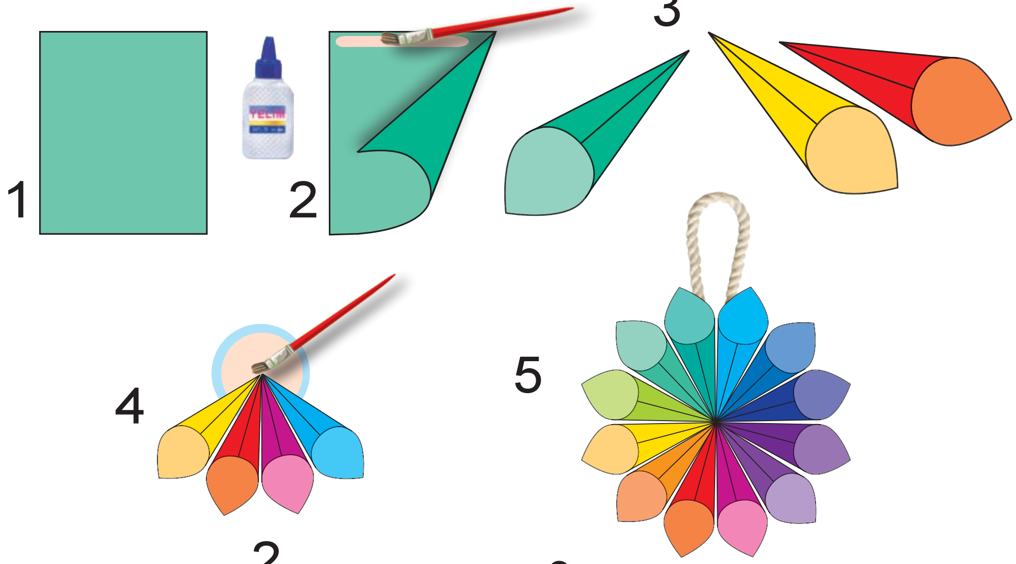
15-nji ders. KAGYZDAN GÜJÜK ÝASAMAK

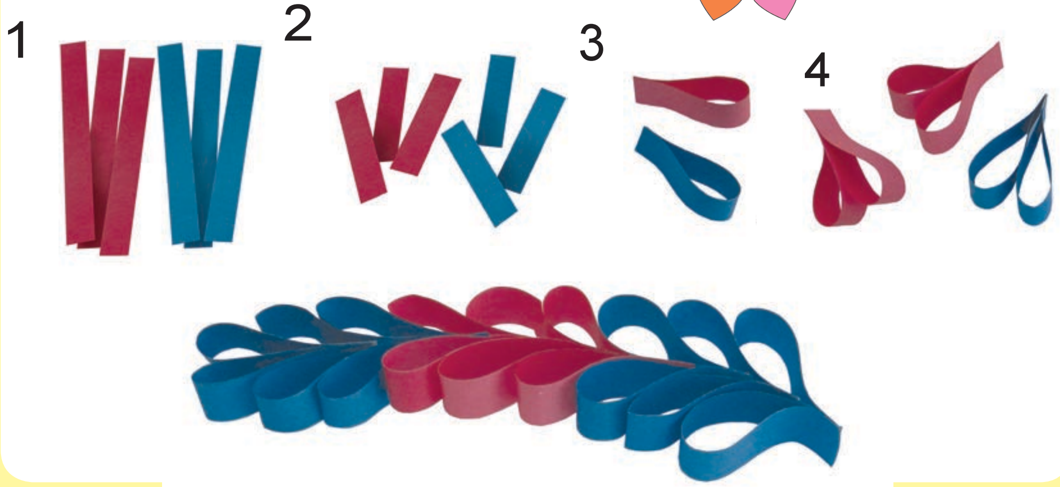
Kagyzy eplemegiň tehnikasy esasynda şekiller ýasamak sungatyna **origami** diýilýär.



TÄZE ÝYL ÜÇIN OÝNAWAÇLAR TAÝÝARLAMAK

1-nji ýanwardan Täze ýyl başlanýar. Baýram bezeglerini ýasap, synp otagyňyzy bezäň.





16-njy ders. BAÝRAMLAR ÜÇIN NYKAPLAR TAÝÝARLAMAK

Towşan nykabyny ýasamak

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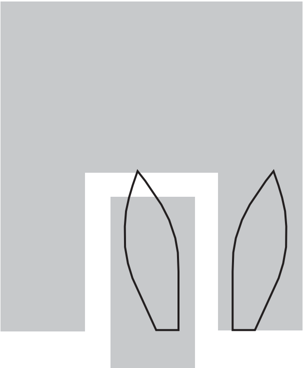

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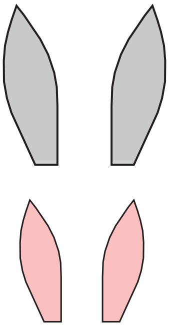

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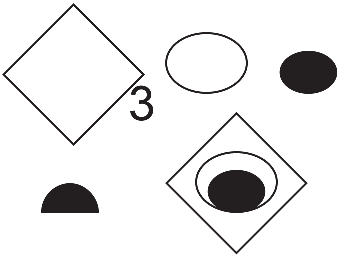

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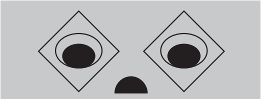

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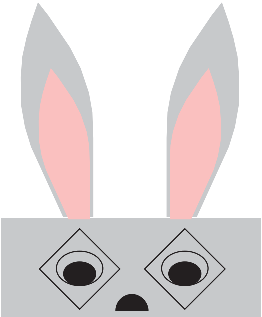

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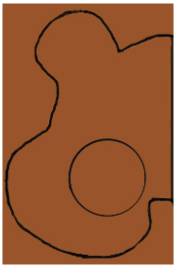
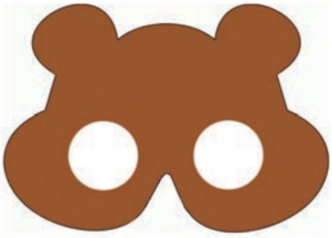
Aýy nykabyny ýasamak



Kagyzy iki epläp, ülňi esasynda aýynyň kelle bölegini çyzyp alyň.



Çyzyk boýunça gyrkyň. Arasyny açyň, galamda gaşlaryny we tumşugyny çyzyň we reňkläň.

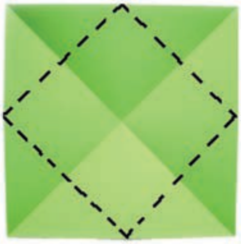
14-nji ýanwar — „Watan goraýjylary güni“

Armiýamyz – biziň parahatçylygymyzyň sakçysydyr. Güýçli, edermen harbylarymyz ýerde, suwda, howada gulluk edýärler.

Olaryň gullugy nähili tehnika bilen bagly?

Siziň maşgalaňyzda gulluk edenler ýa-da gulluk edýänler barmy? Olar üçin dürli sowgatlary taýýarlaň.

17-nji ders. KAGYZDAN OÝNAWAÇLAR ÝASAMAK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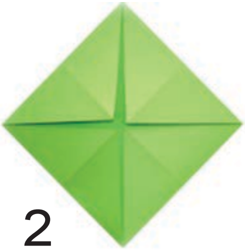
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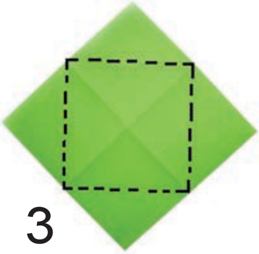
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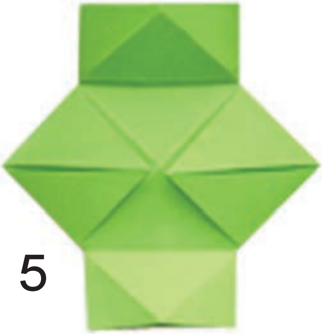
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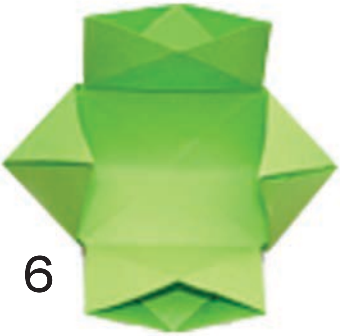
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Özüňiz ýasan gämijigiňizden siz nähili peýdalanmakçy? Ony kime sowgat etmek mümkin?

Uçýan planer ýasamak

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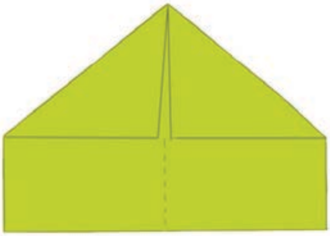
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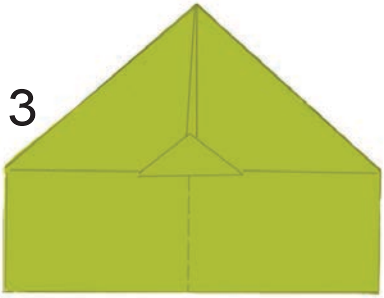

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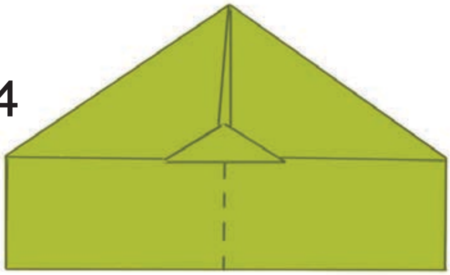

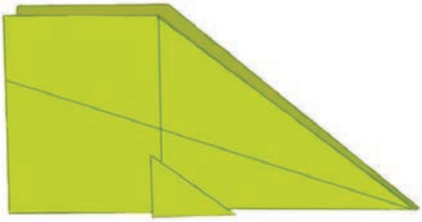
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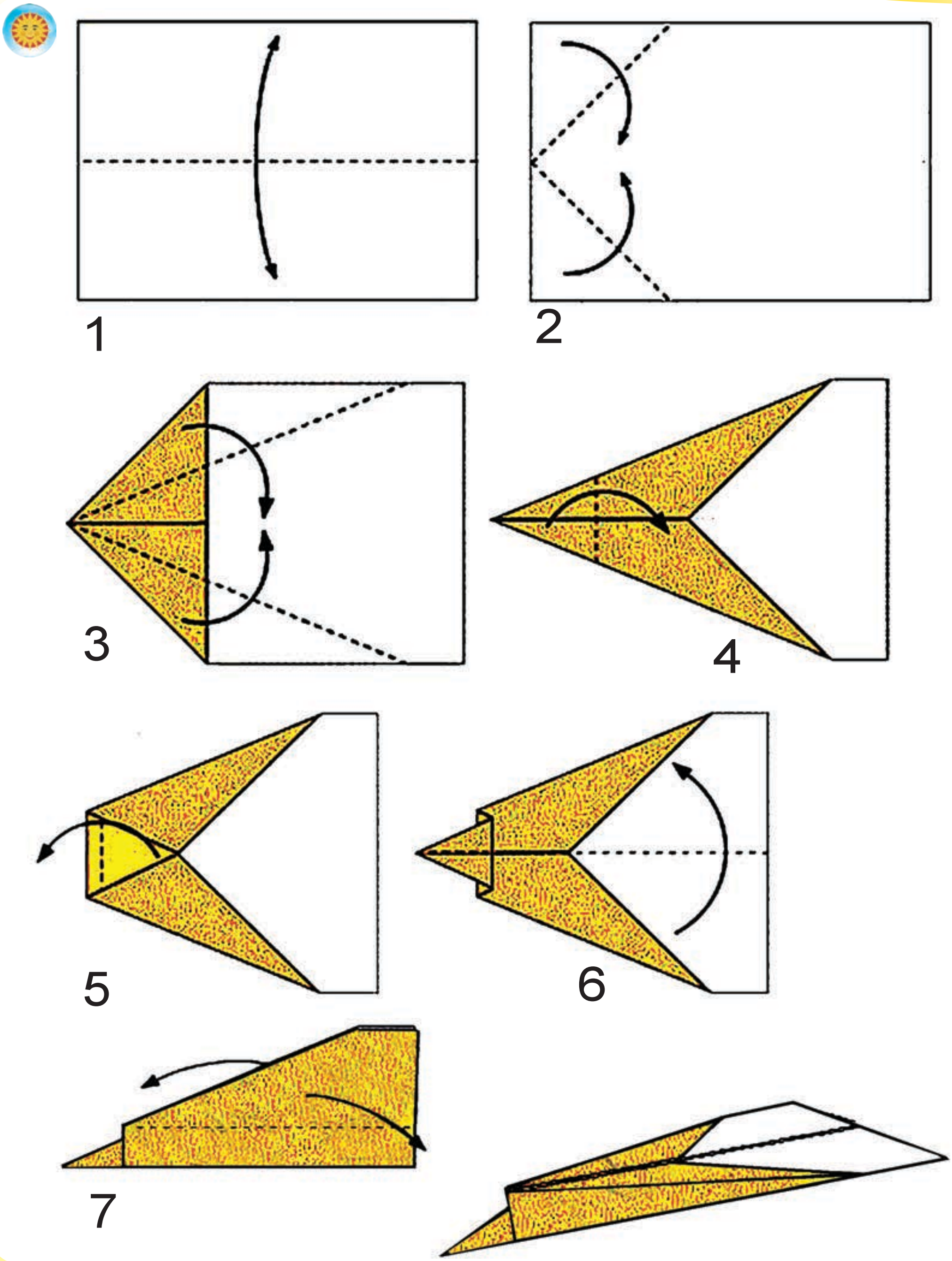
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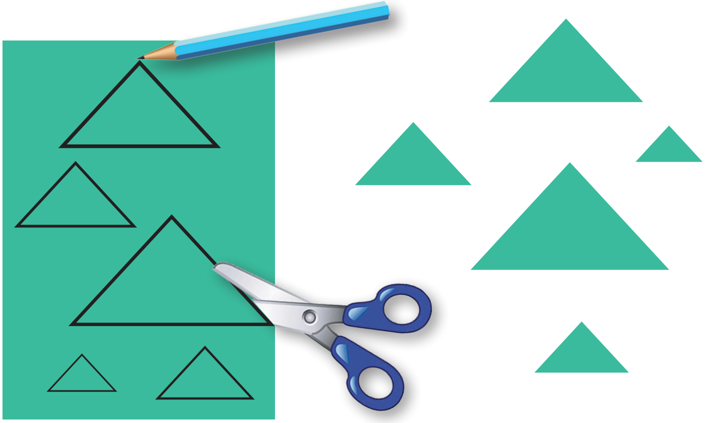
18-nji ders. GYŞYŇ GÖRNÜŞINI APPLIKASIÝA USULYNDA ÝASAMAK



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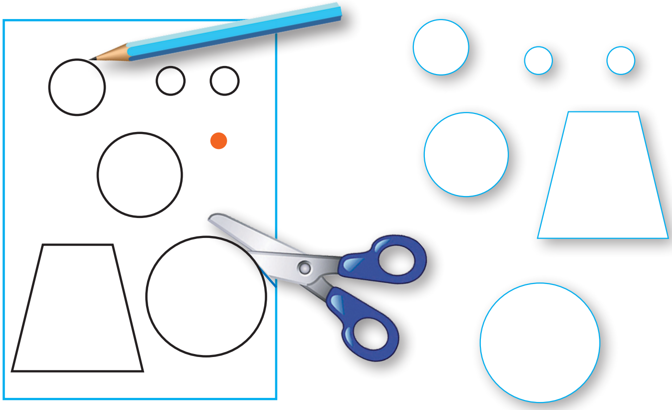

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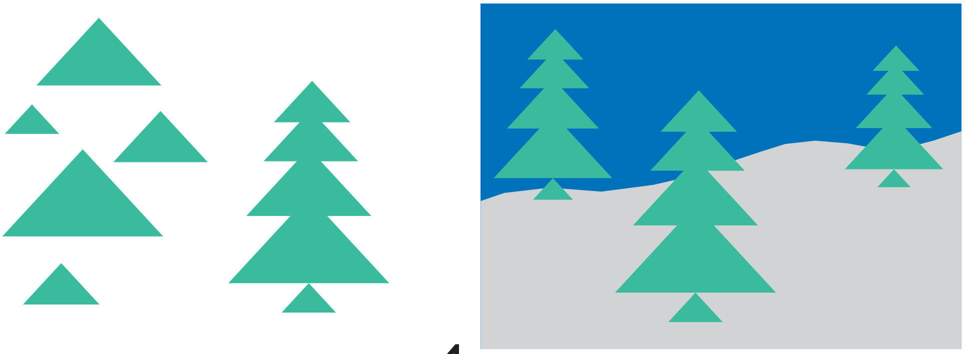

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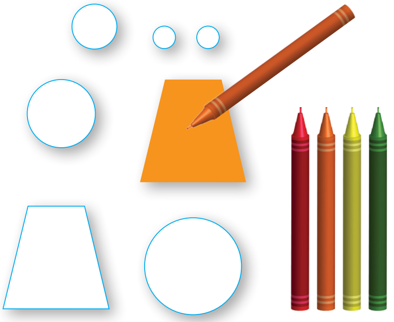

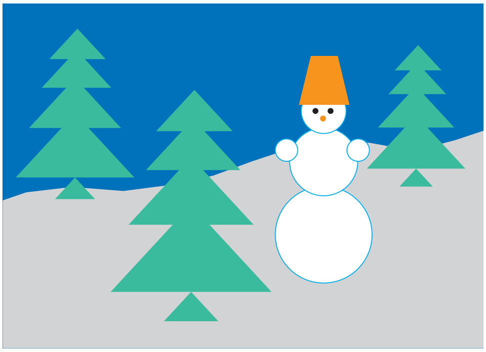

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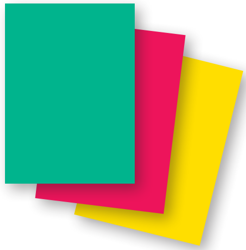
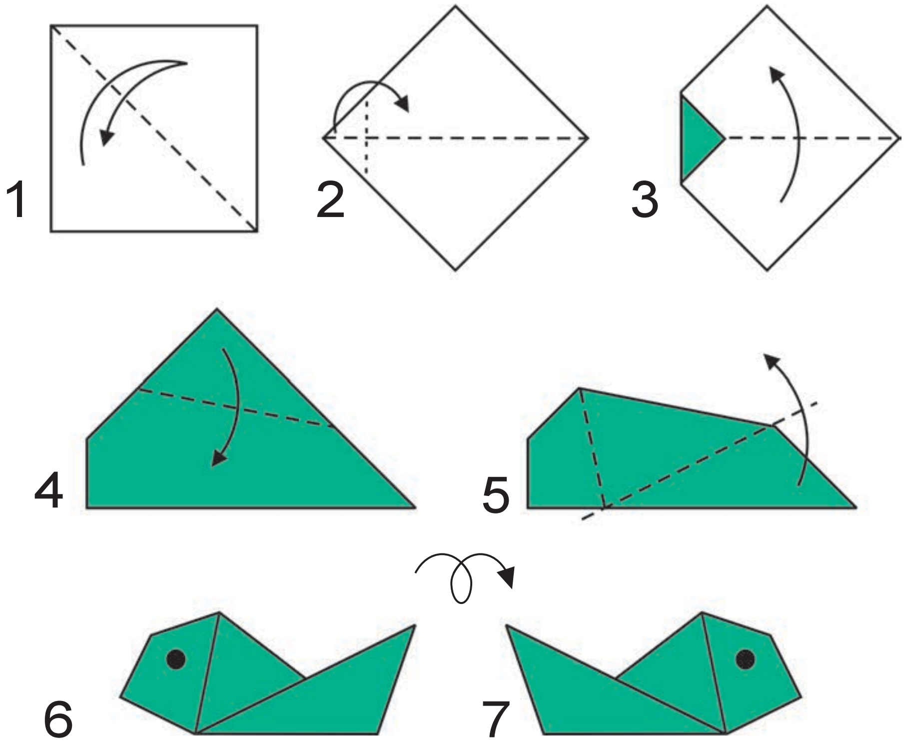
19-njy ders. REŇKLI KAGYZDAN JANDARLARYŇ ŞEKILINI GURMAK-ÝASAMAK





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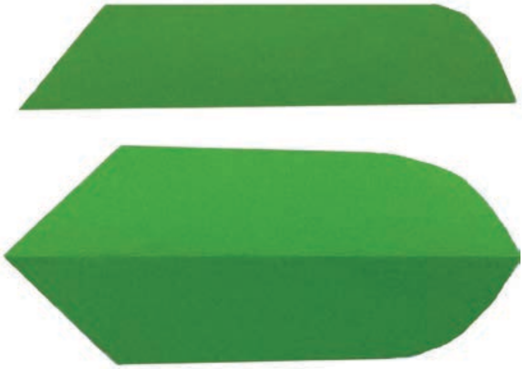

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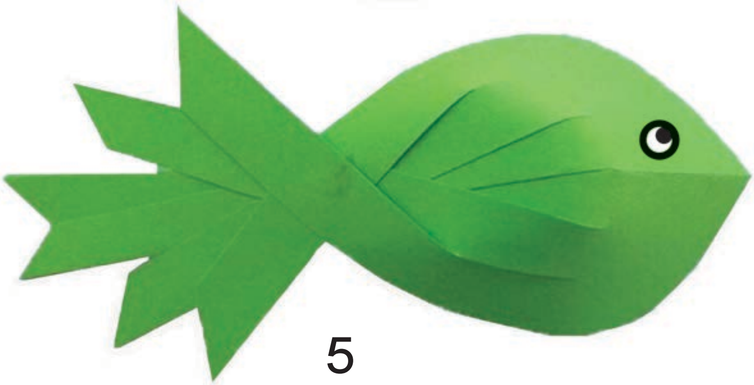

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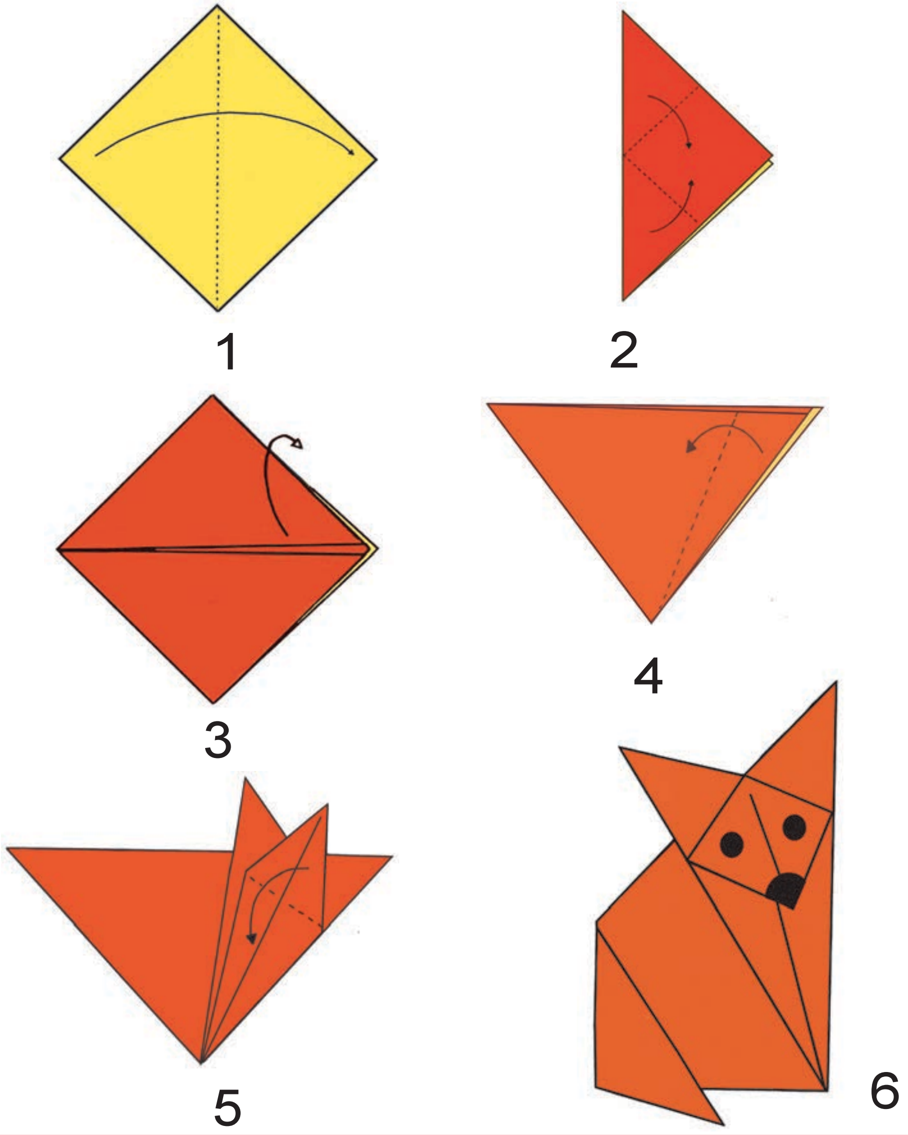
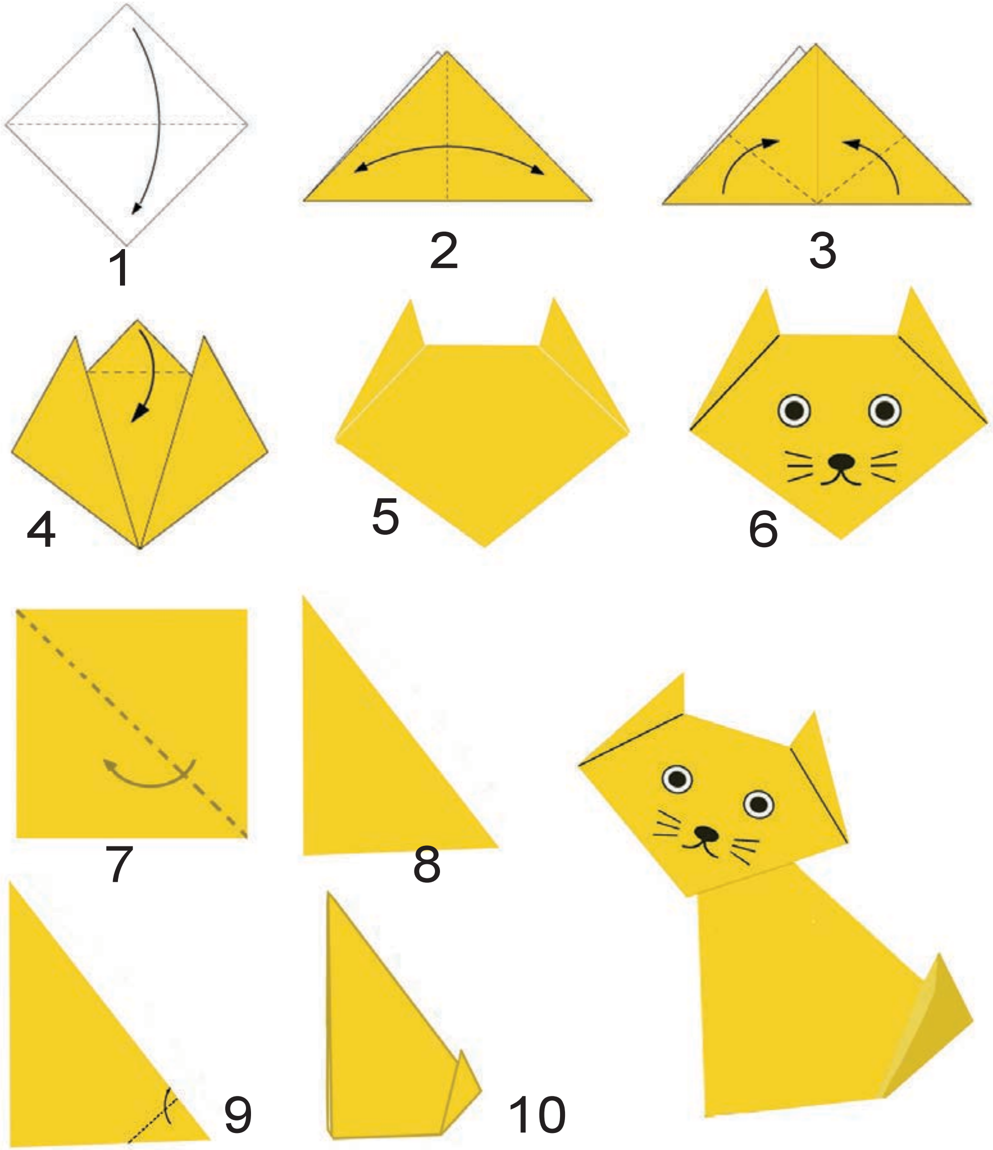
20-nji ders. KAGYZDAN TILKINIŇ ŞEKILINI GURMAK-ÝASAMAK



KAGYZDAN PIŞIGIŇ ŞEKILINI GURMAK-ÝASAMAK

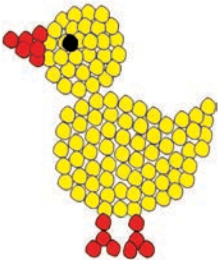


21 -nji ders. MOZAIKA BARADA DÜŞÜNJE

Maýda kagyz bölejiklerini nähili yzygiderlikde ýelmemek mümkin?

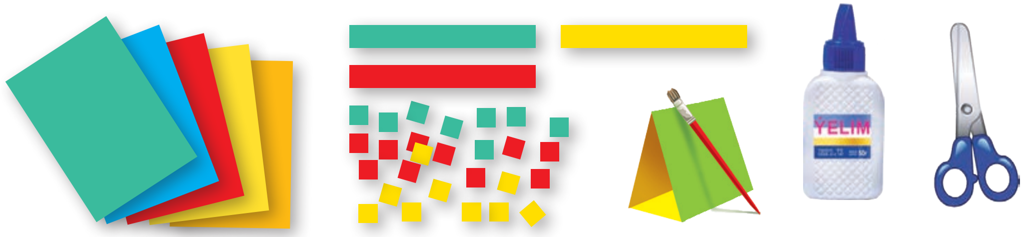
Guşlar nähili şekillendirilen? Nämesi bilen meňzeş?

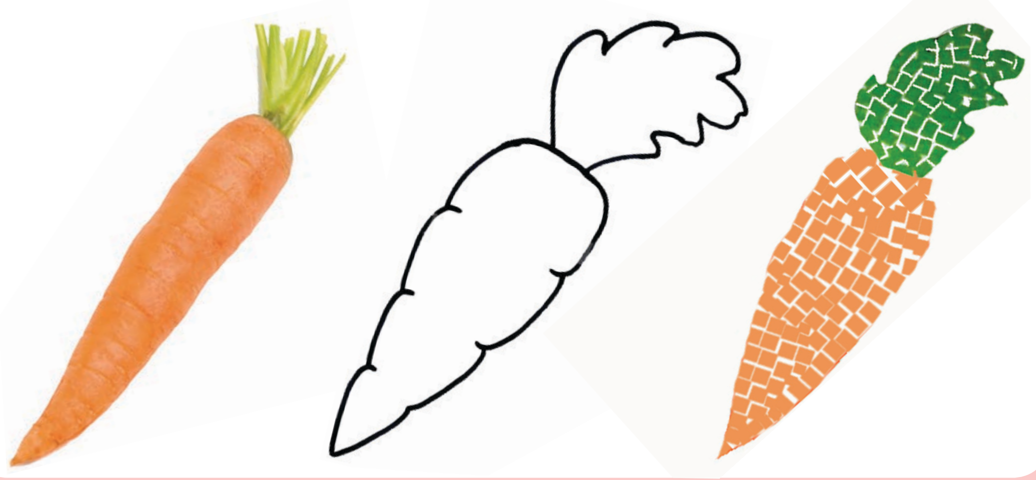
Mozaika – maýda bölejiklerden düzülen nagyş we suratdyr.

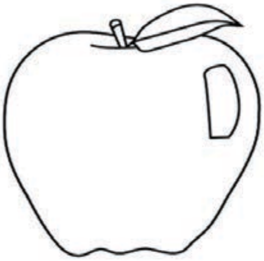
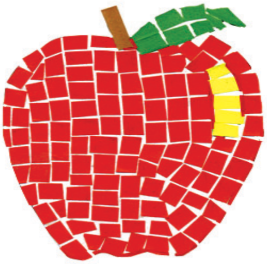


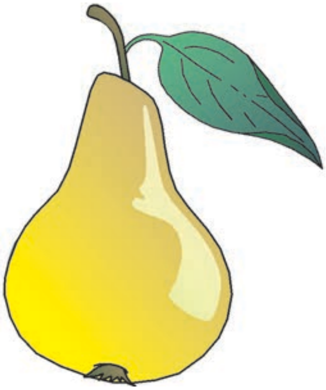
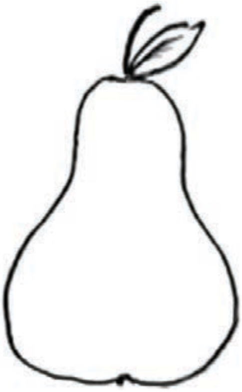
Siziň pikiriňizçe, mozaika döretmek üçin nähili kagyzy almak amatly bolýar? Ýuka kagyzmy ýa-da galyň kagyzmy? Kagyz bölejiklerini nähili ýelmemeli eken?

22-nji ders. MOZAIKA USULYNDA GÖK ÖNÜMLERIŇ ŞEKILINI ÝASAMAK

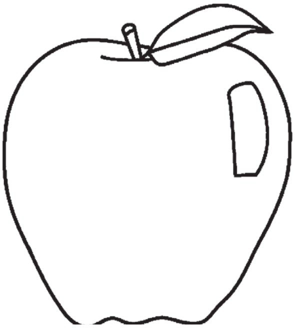




Kagyz salfetkany maýda edip gyrkyp, togalak şekile getiriň we ony çyzyp alan şekiliňiziň üstüne bir tekiz ýelmäň.



23-nji ders. DIZAÝNERLIK KÄRI

Dizaýn – bu oýlanmak, çyzmak, taslama düzmek.

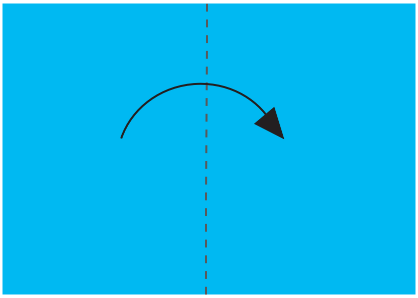
Dizaýner – taslama düzüji suratkeşdir.

Dizaýnerlik käri — senagat estetikasy boýunça hünärmen suratkeş.

Dizaýnerlik gyzykly kär. Bu kärdäki adamlar hemişe täze zatlary oýlap tapýarlar. Bular öý enjamlary, geýimler, tehniki esbaplar we örän köp başga zatlar bolmagy mümkin. Suratda berlen zatlaryň gurluşyndaky we bezelişindäki tapawutlary tapyň.

8-NJI MART BAÝRAMYNA GUTLAG HATY TAÝÝARLAMAK

24-nji ders. NOWRUZ BAÝRAMYNA GUTLAG HATY TAÝÝARLAMAK



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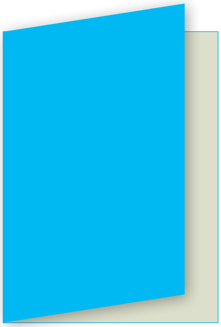

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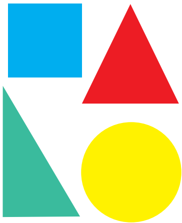

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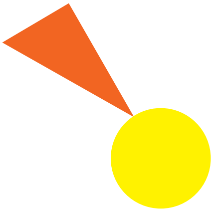

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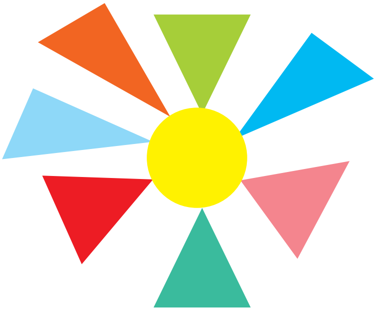

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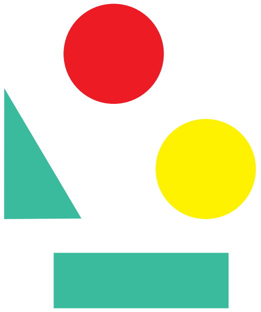

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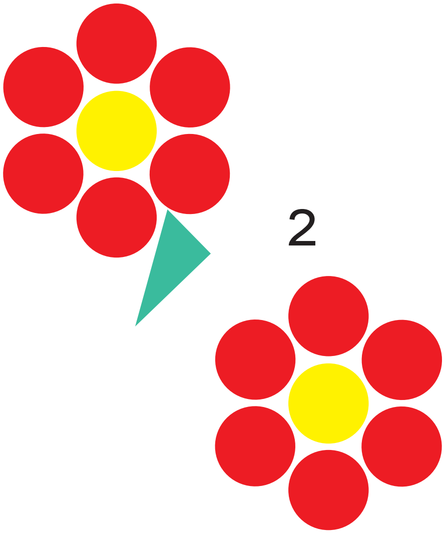

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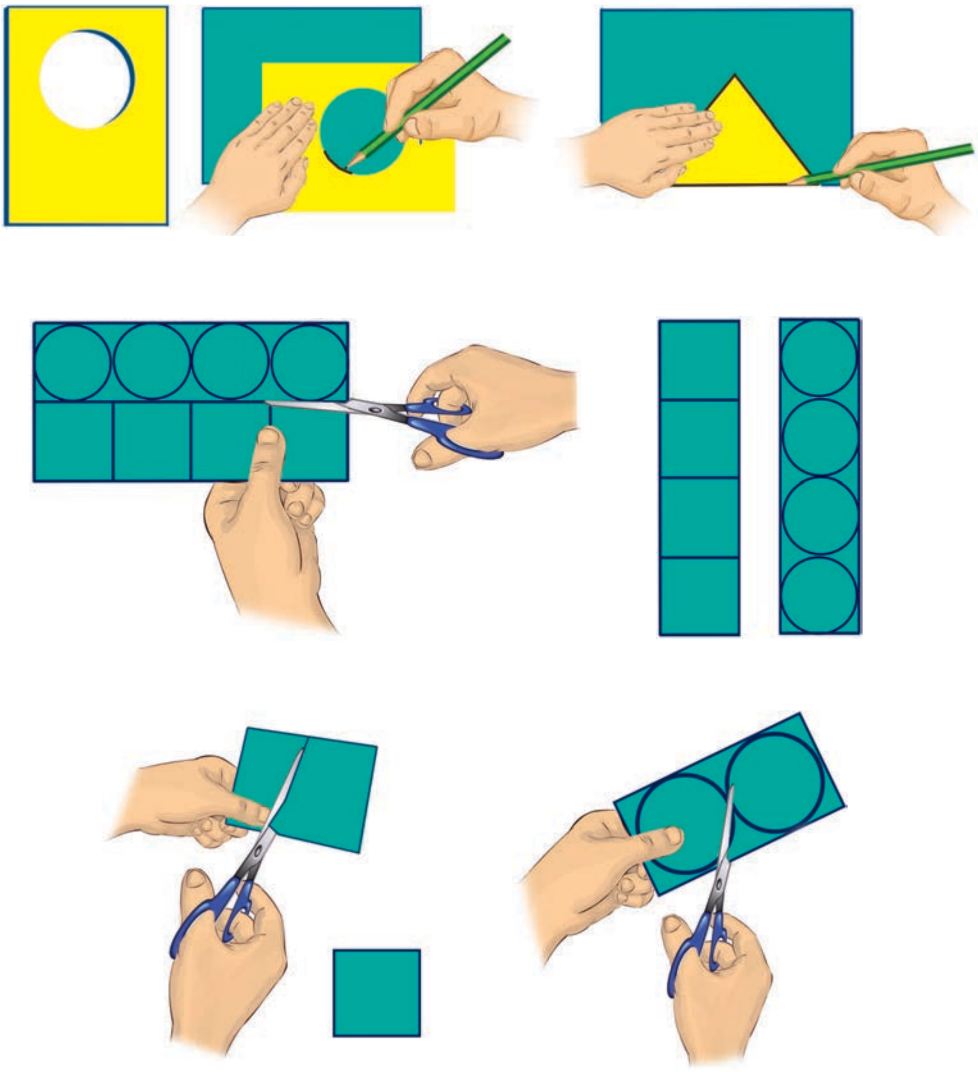
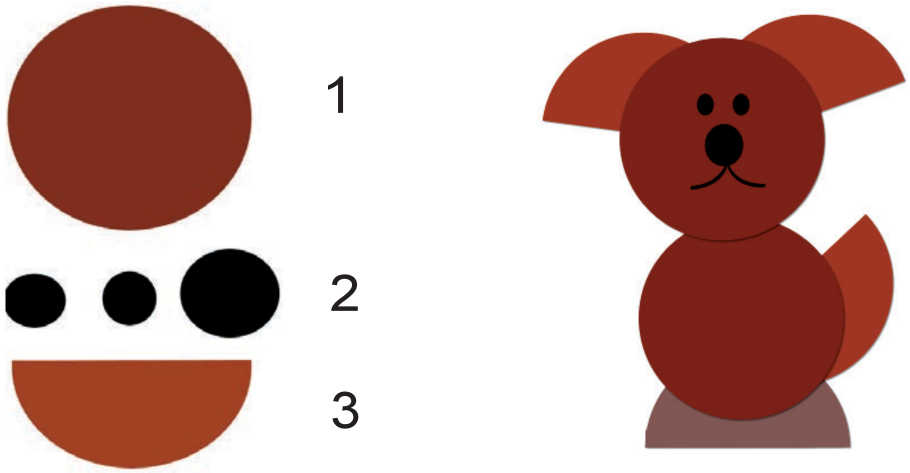
Bahar
baýramy bilen
gutlaýarys !

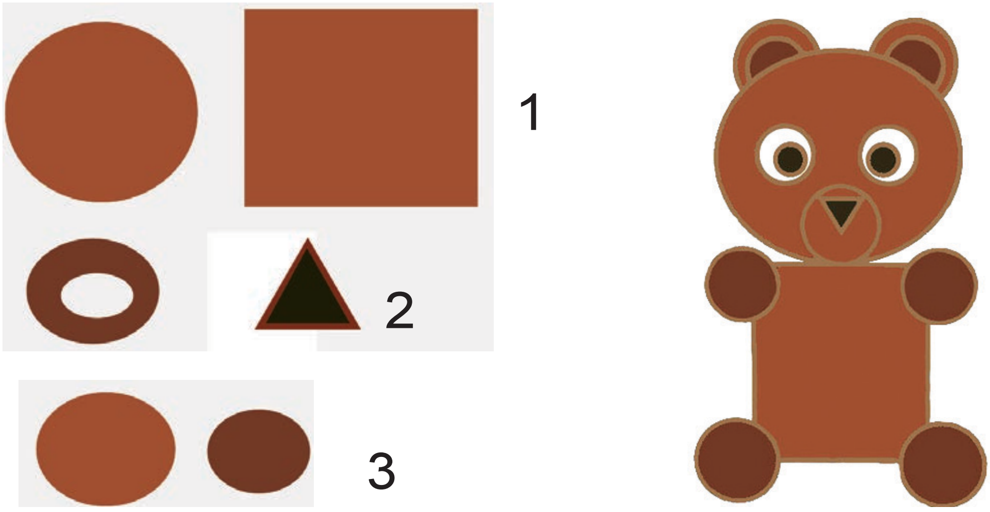
Nowruz
baýramy bilen
gutlaýarys !

25-nji ders. GEOMETRIK ŞEKILDÄKI KAGYZLARY GYRKMAGYŇ USULLARY

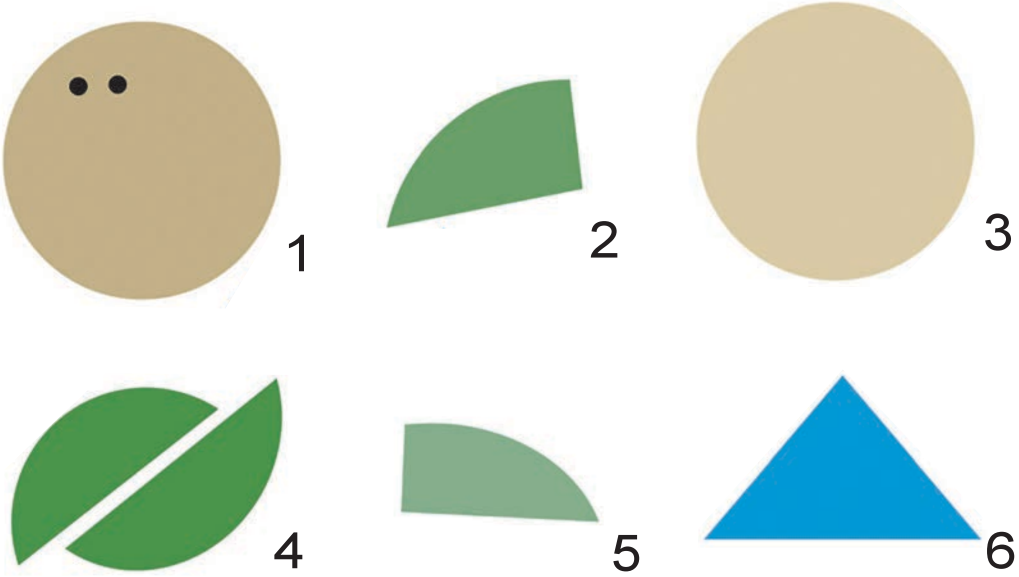


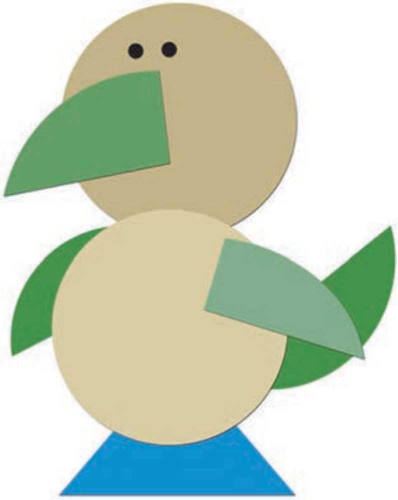
26-njy ders. GEOMETRIK ŞEKILDÄKI KAGYZLARDAN HAÝWANLARYŇ ŞEKILINI ÝASAMAK





GEOMETRIK ŞEKILDÄKI KAGYZLARDAN GUŞLARYŇ ŞEKILINI ÝASAMAK

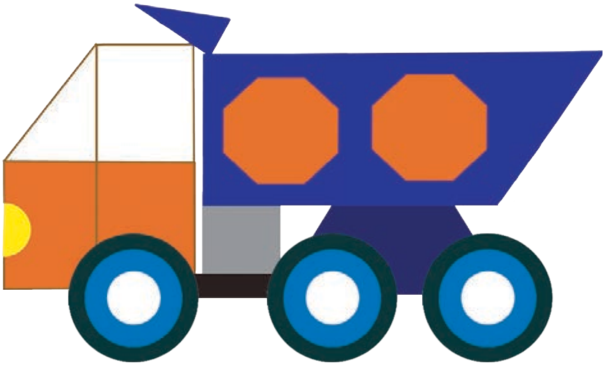


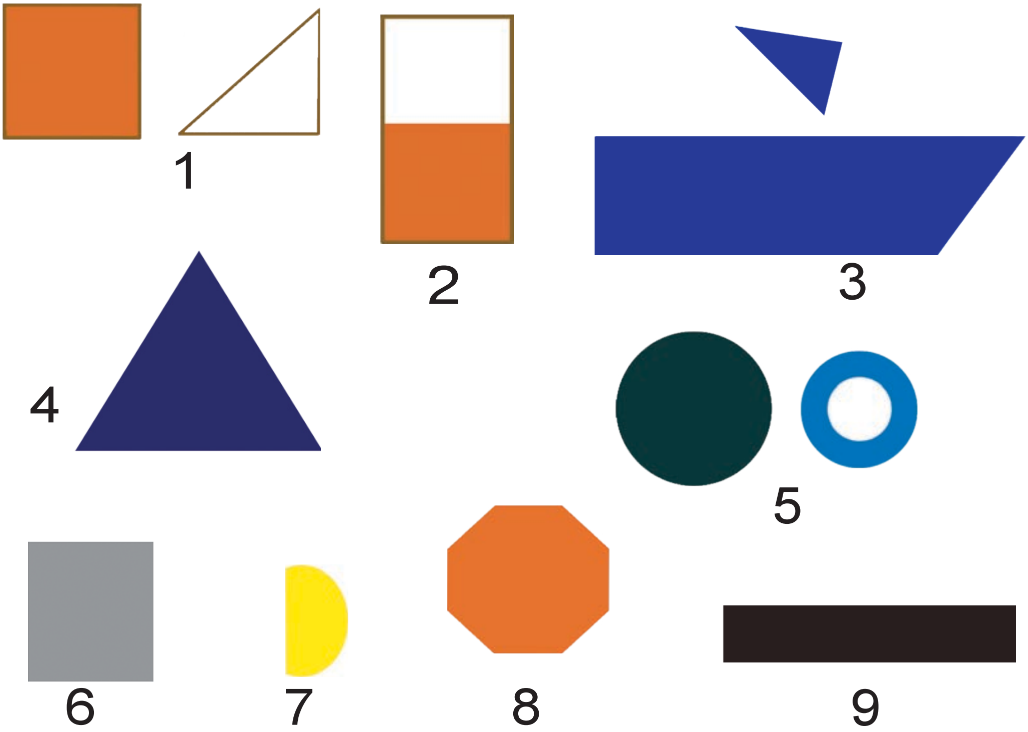


HAÝWANLARYŇ TESWIRINE SYN EDIŇ WE ÝASAJAK BOLUŇ

Suratda nähili haýwanlar şekillendirilipdir? Olary ýasamak üçin siz nähili şekildäki kagyzlardan peýdalanyp bilersiňiz?

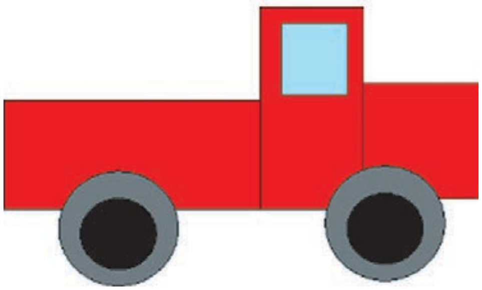
27-nji ders. GEOMETRIK ŞEKILDÄKI KAGYZLARDAN MAŞYN GURMAK-ÝASAMAK

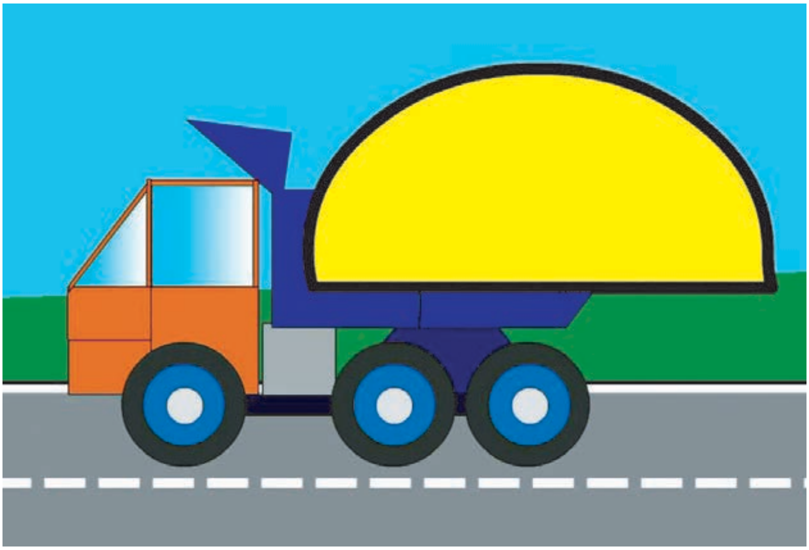




SYN EDIŇ WE ÝASAJAK BOLUŇ

Suratda nähili maşynlar şekillendirilen? Şu suratlara garap özüňiz maşynyň şekilini özbaşdak ýasajak boluň.

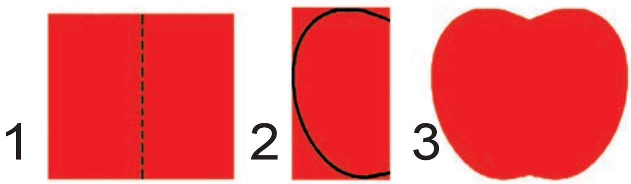




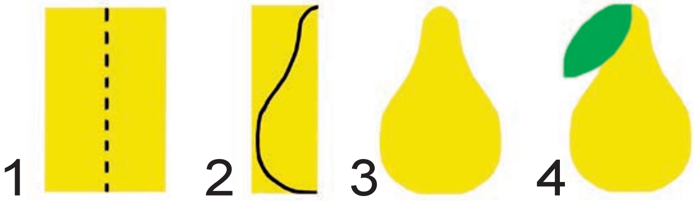
28-nji ders. MIWELERI WE GÖK ÖNÜMLERI SIMMETRIK ŞEKILLERDEN ÝASAMAK

Suraty ünsli synlaň. Kagyz iki eplenenden soň nähili iş amala aşyrylýar?

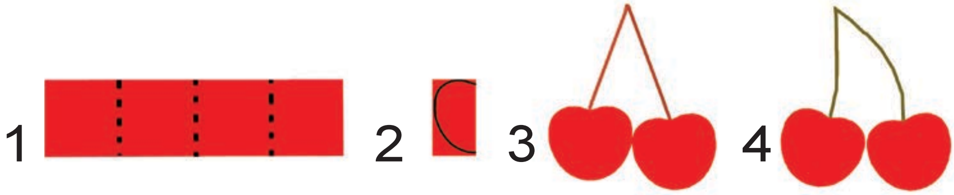
Almanyň şekilini kagyzy iki eplemek ýoly bilen taýýarlaň.

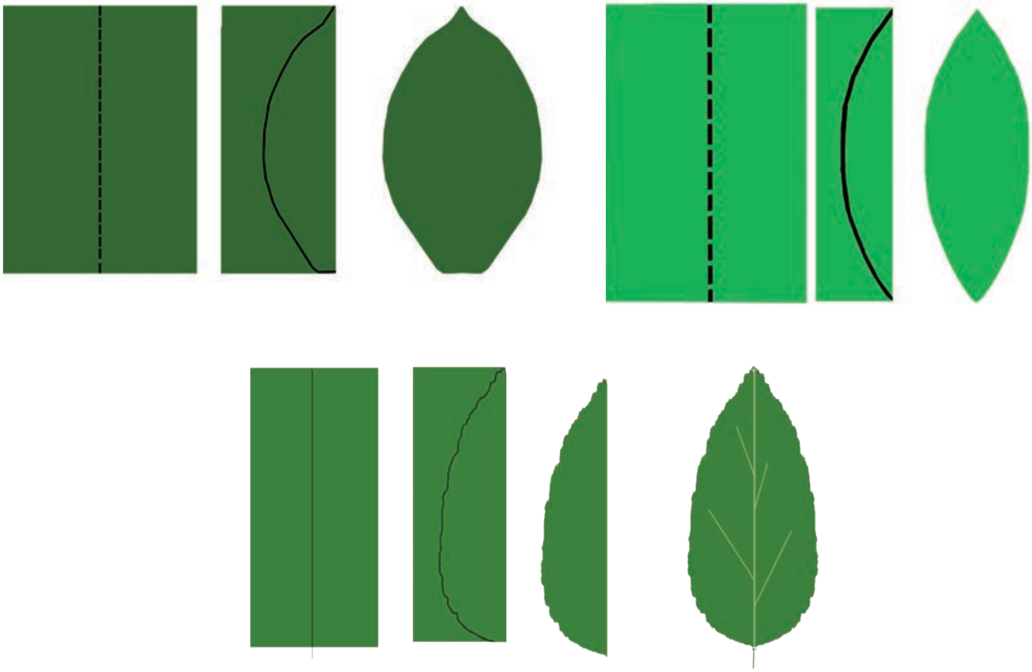


Uzyn kagyzdan armydyň şekilini gyrkyň.

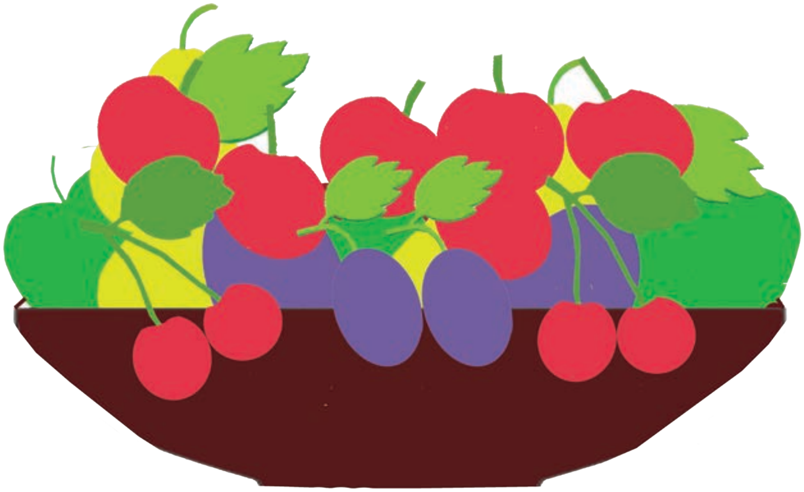


Kagyzy epläp, üljäniň şekilini taýýarlaň.





Taýýarlan miweleriňizi tarelka salyň.



29-njy ders. GURLUŞYKÇY KÄRI

Köçä çyksaňyz, jaýlary, mekdebi, çagalar bagyny we dükanlary görýärsiňiz. Bu binalary gurmakda kerpiç örüji, suwagçy, neçjar, boýagçy we başga käriň eýeleri bilelikde zähmet çekipdirler.

Hany aýdyň, kim nähili işi ýerine ýetirýär? Olaryň käri nähili atlandyrylýar?

ÖÝJAGAZYŇ MAKETINI GURMAK-ÝASAMAK

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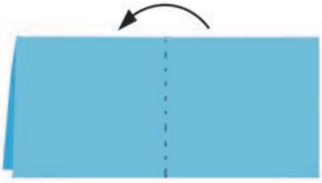

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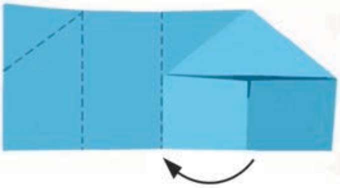

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ÖZÜŇIZ ÝASAJAK BOLUŇ.

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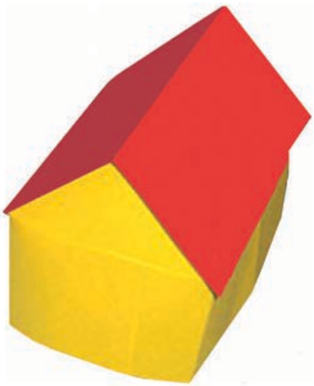

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30-njy ders. KAGYZDAN „SEBETDÄKI GÜLLERI“ GURMAK-ÝASAMAK

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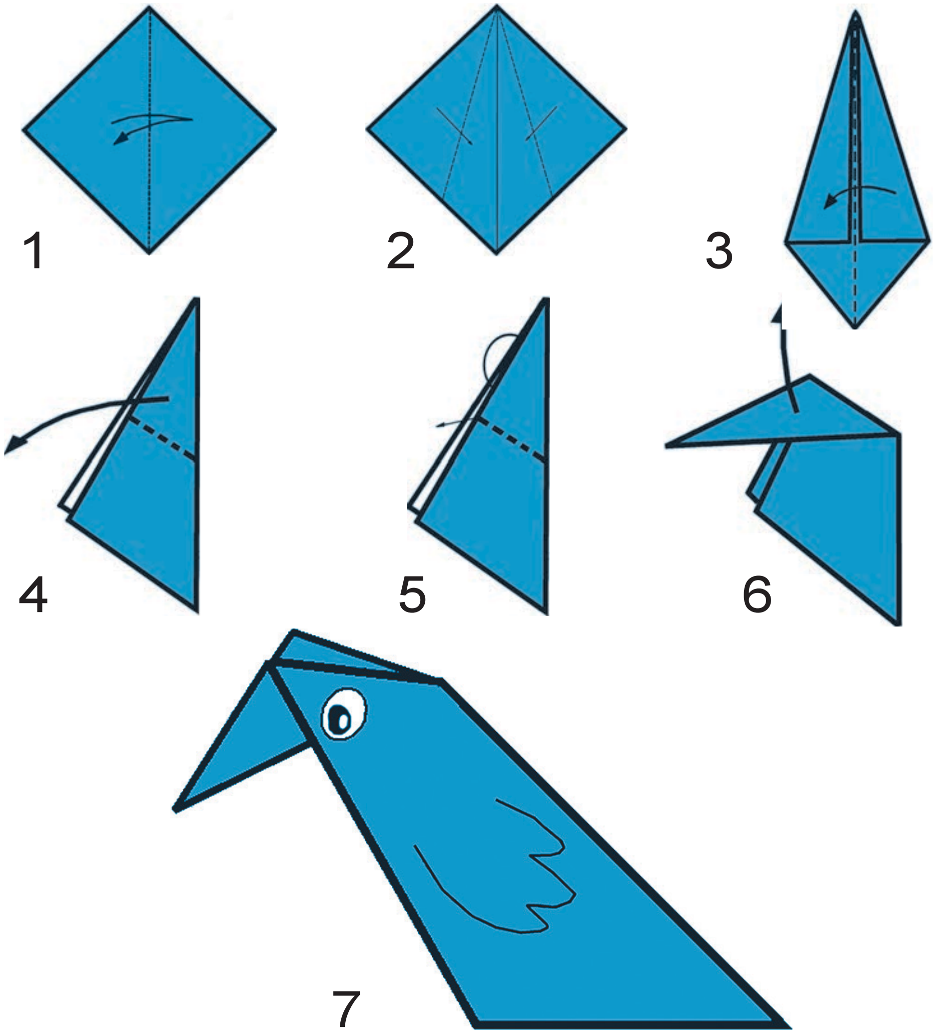
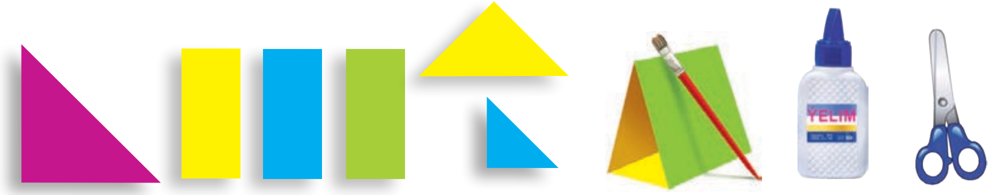
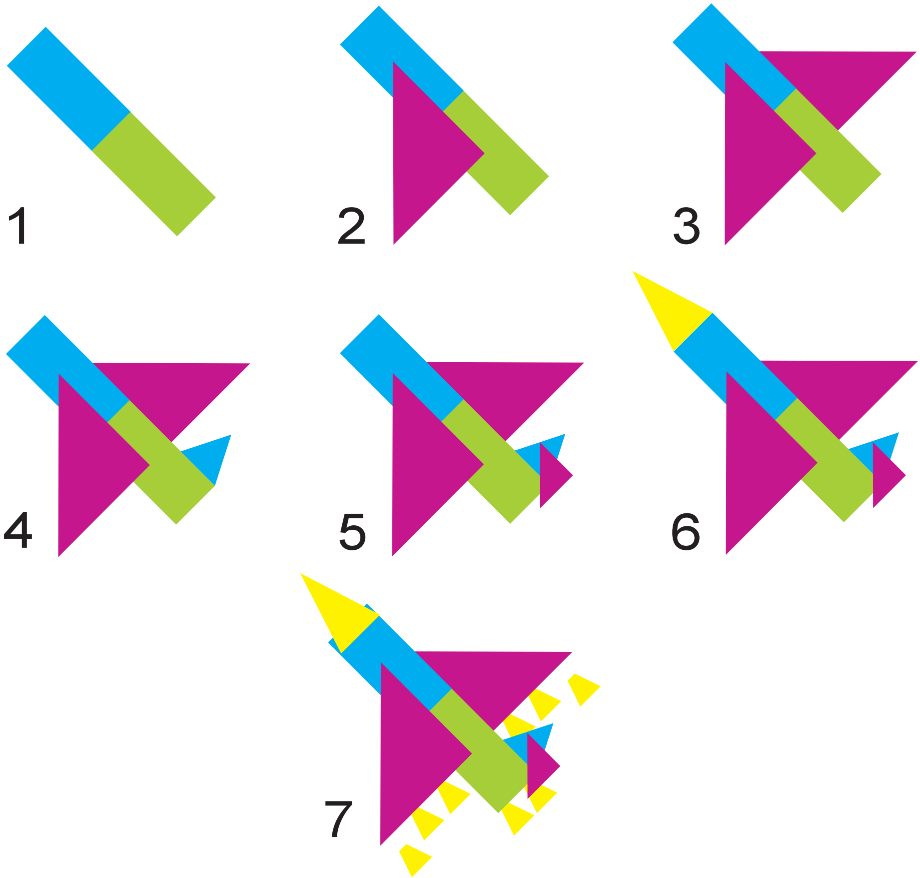
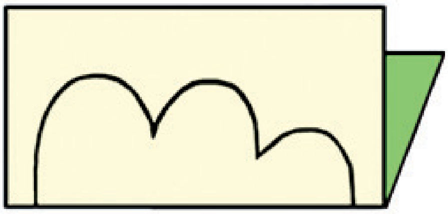
31-nji ders. KAGYZDAN EPLEMEK USULYNDA HAÝWANLARYŇ, GUŞLARYŇ ŞEKILLERINI ÝASAMAK



BARLAG IŞI ÜÇIN NUSGA ÝUMUŞLAR



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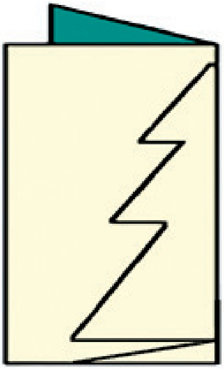
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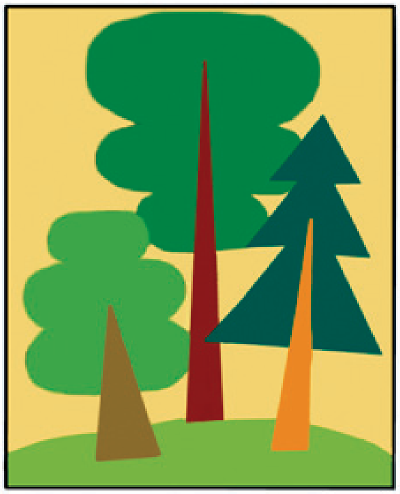
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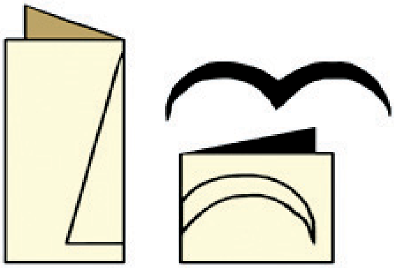
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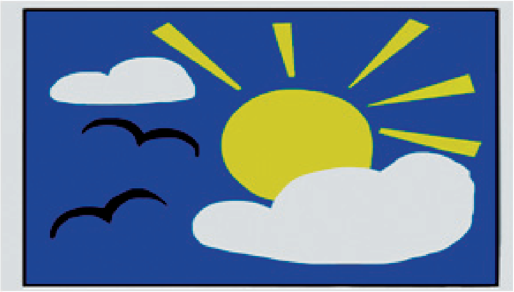
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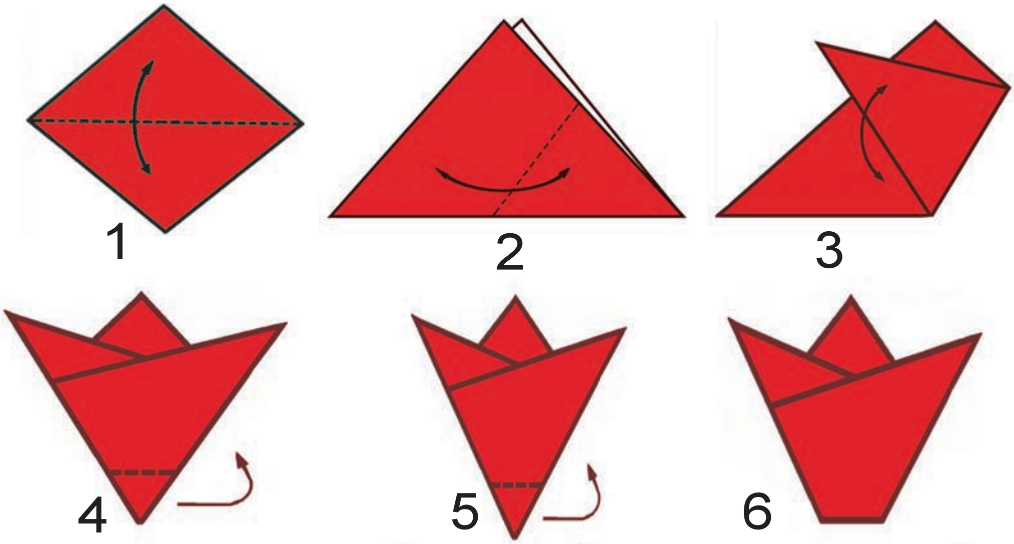
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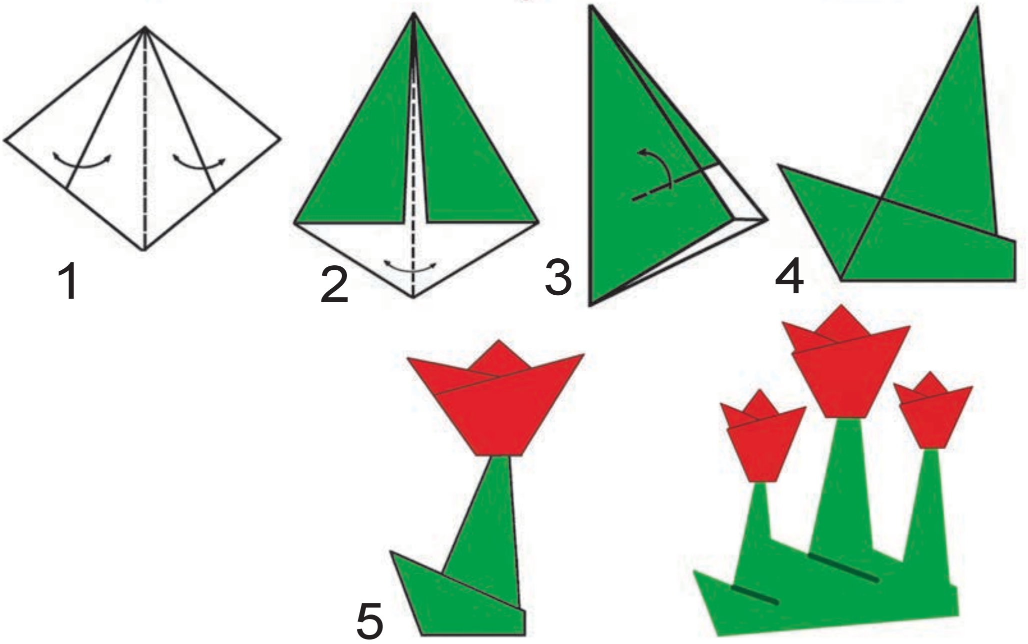
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KÄR USSALARY GÜRRÜŇ BERÝÄRLER

ORNAMENT WE NAGYŞ

Ornament diýip, arhitektura we amaly sungat eserlerindäki esasy elementlerden birine aýdylýar. Ol çyzyklardan we reňklerden ybarat bolup, binalaryň we enjamlaryň üstüni boýamak, deşmek we oýup işlemek ýoly bilen döredilýär.

Nagyş bolsa dürli zatlara, mebellere, jaýlara oýup we boýap çekilýän güldür. Jaýlara, dürli zatlara we mebellere oýup işleýän hem-de reňkli boýaglar bilen bezeýji suratkeşe **nakgaş** diýilýär.

Özbegistanda nakgaşlyk sungaty gadymdan ösüp gelýär. Zynatly ýadygärlikler häzire çenli özüniň özüne çekijiligini ýitirenok. Umuman, nagyş gül bezegi diýen manyny aňladýar.

KAGYZ

Mekdebi kagyzsyz göz öňüne getirmek gaty kyn. Depder, kitap, synp žurnaly, gündelik depder hem kagyzdan taýýarlanýar. Kagyz biziň durmuşymyzda iňňän möhüm rol oýnaýar. Bir list kagyz taýýarlamak üçin näçe-näçe adam zähmeti talap edilýär. Kagyzy birinji bolup hytaýlylardan Tsaý Lun balykçylyk torundan taýýarlap görüpdir. Bu möhüm oýlap tapma diňe bir Hytaý däl, eýsem bütin adamzat üçin uly ähmiýete eýe boldy.

Özbegistanda Temurler hökümdarlygy döwründe kagyz öndürmäge aýratyn üns berlipdir. Şu sebäpli-de Samarkant kagyzy Orta asyr Gündogar hatdatlarynyň arasynda gaty gadyrlanypdyr, belli bir bölegi bolsa daşary ýurtlara-da ýaýrapdyr. Kagyz öndürmek tehnologiýasy müň ýyldan artyk taryha eýe bolsa-da, ol henizem ösüşini dowam etdirýär.

GAÝÇY

Arheologlar tarapyndan harabalardan tapylan gaýçy iň gadymy gaýçylardan hasaplanyp, onuň ýaşy 3–4 müň ýyllara dogry gelýär. Bu gaýçy ilki adamyň özüne hyzmat etmek üçin däl-de, belki goýnuň ýüňüni gyrkmak üçin oýlanyp tapylypdyr.

Ol iki müň ýyldan köpräk wagtyň dowamynda üýtgewsiz ulanylyp gelipdir.

Şundan soň, takmynan 1000 ýyl öň, hünärmentler iki pyçagy myh bilen birleşdirip we olaryň sapyny halkalara öwrüp, gaýçyny amatlyrak görnüşde oýlap tapypdyrlar. Soňluk bilen, gaýçynyň gurluşyny barha kämilleşdirmek netijesinde ol dellekleriň we lukmanlaryň iş serişdelerine öwrülipdir. Her bir ussa özüniň gaýçysyny barha kämilleşdiripdir. Şeýlelikde ýörite gaýçylar peýda bolupdyr. Meselem: bagban, dellek, tikinçi, hirurg gaýçylary we başgalar.

APPLIKASIÝA

Applikasiýa latyn dilinde „birikdirme“ diýen manyny aňladýar. Bu gadymy sungat görnüşlerinden biridir. Applikasiýa kagyz, karton ýa-da mata bölekleriden, guradylan güllerden we ýapraklardan ýelmemek arkaly döredilýär. Her bir halkyň applikasiýasy şekili, reňki we özboluşlylygy bilen bir-birinden tapawutlanýar.

ORIGAMI

Origami „rejelemek we eplemek“ diýen manyny aňladýar. Origami tehnologiýasynda gaýçy ulanylmaýar. Origami sungaty Ýaponiýada kagyz öndürmek döwründen başlap ösüp gelipdir. Orta asyrlarda ol ýapon aristokratlarynyň medeniýetiniň bir bölegine öwrülipdir. Häzirki günde origami tehnologiýasy bilen meşgullanmak diňe bir Ýaponiýada däl, eýsem bütin dünýäde adamlaryň söýgüli ýadawlygy aýyrýan işlerine öwrülipdir.

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