

TEHNOLOGIYA

1

Umumy orta bilim berýän mekdepleriň
1-nji synpy üçin derslik

Özbekistan Respublikasynyň Halk bilimi
ministrligi tarapyndan neşire hödürlenildi

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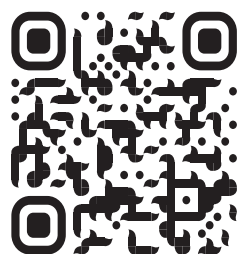
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GIRIŞ

Hormatly okuwçy!



Ululary haýran galdyrmak isleýärsiňizmi?

Kagyzdan we kartondan dürli şekilleri ýasamak, tebigy materiallardan gyzykly teswirleri, iliklerden dürli şekilleri emele getirmegi isleýärsiňizmi?

“Tehnologiýa” predmeti Size şu babatda ýakyndan kömek eder.

Dersligiň kömeginde Siz tehnologik prosesleriň ýerine ýetiriliş yzygiderligini bilersiňiz. Amaly sapaklar dowamynda zähmet gurallary bilen ýakyndan tanyşarsyňyz, gaýçy, ýelim, çotga ýaly enjamlar bilen işlemegiň kadalaryny öwrenersiňiz.

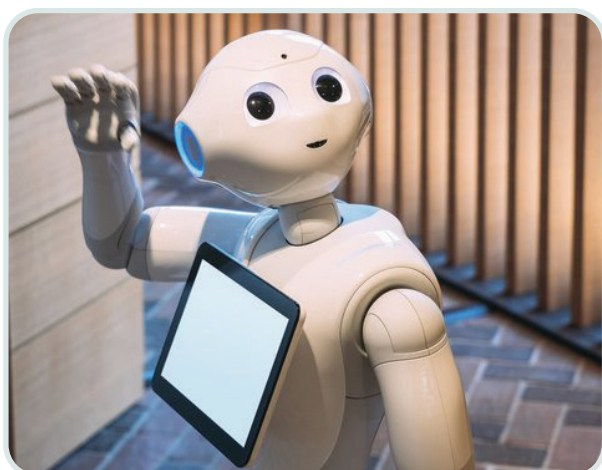
Özbaşdak döredijiligiňiz, islän zadyňyzy ýasap bilmegiňiz üçin mümkinçilikler gapysy açylar. Derslikde berlen ýumuşlary oňat hilli ýerine ýetirmekde Size üstünlik arzuw edýäris.

Awtorlar

1-nji
ders

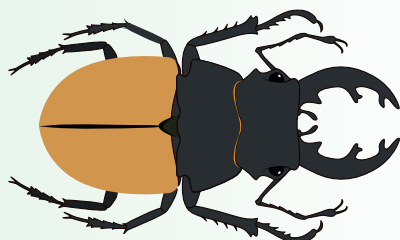
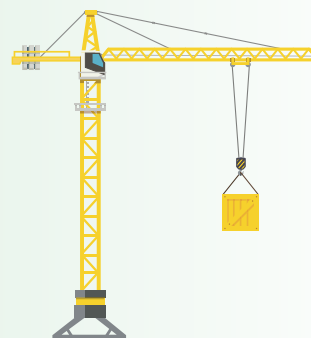
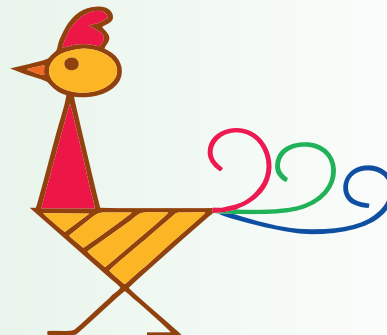
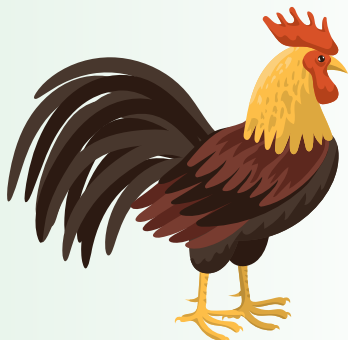
TEHNOLOGIYA ÄLEMI

Suratda görkezilen tehnikalari üns bilen synlañ

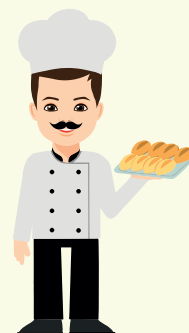


1. Siz bu tehnikalari nirelerde görüpdiñiz?
2. Tehnologiya älemi barada nämeleri bilýärsiñiz?

Aşakda berlen teswirleriň meňzeş taraplaryny deňeşdiriň



Tehnologiya we kärler bilen tanyşyars



1. Siz gündelik durmuşda nähili tehnologiyalardan peydalanýarsyňyz?
2. Döwrebap tehnologiyalar adamlaryň zähmetini nähili ýeňilleşdirýär?

TEHNOLOGIK PROSES

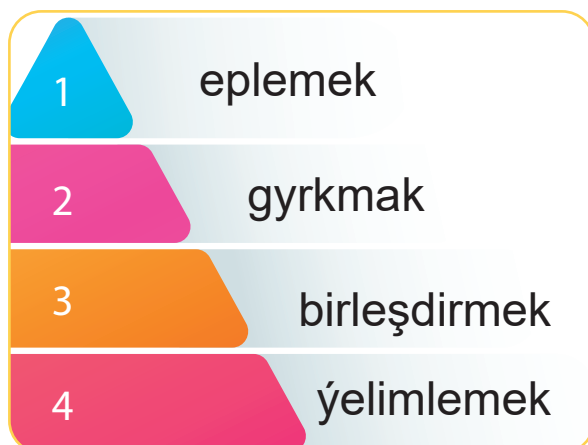
Tehnologiýanyň özi näme?

Tehnologiýa önüm döretmek prosesidir. Bu prosesde onuň peýdaly aýratynlyklaryny ýitirmeli däl. Oňat hilli önüm hyrydarly bolýar. Tehnologik prosesleri dogry ýerine ýetirip, oňat hilli önüm taýýarlamagy öwrenýäris.



Islendik predmet tehnologik proses esasynda taýýarlanýar.

Tehnologik prosesde yzygiderlik



Çörek taýýarlamagyň tehnologik prosesi

1



Däne ekilýär we ýetişdirilýär.

2



Däneden un taýýarlanýar.

3



Undan çörek taýýarlanýar.

4



Çörek iýmite çykarylýar.

Tehnologiya derslerinde ulanylyan ish gurallary



Galam



Karton



Reŋkli kagyzlar



Tebigy materiallar



Yelim



Çotga



Gaýçy



Çyzgyç

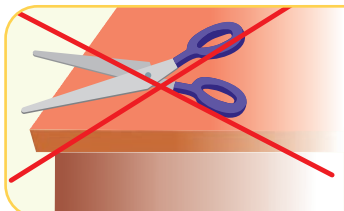


Kagyz düzleýji



Ish gurallaryndan peýdalananda howpsuzlyk
tehnikasy kadalaryna amal ediň.

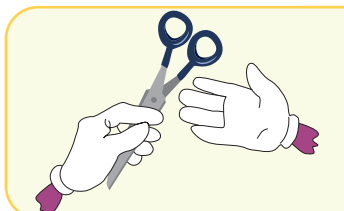
1. Gaýçy bilen işlemegiň kadalary



Gaýçynyň tygly tarapyny açyk galdyrmak bolmaýar.

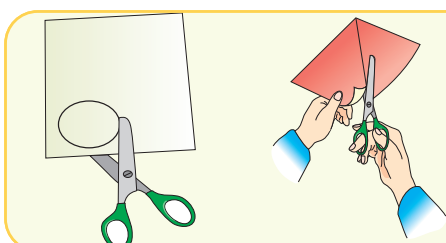


Gaýçynyň tygly tarapyny ýokary garadyp agzy açyk ýagdaýda tutmak bolmaýar.

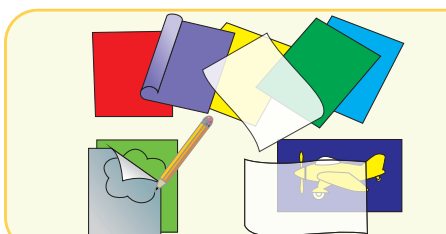


Gaýçynyň tygly tarapyny ýapylan ýagdaýda, ýapyk tarapy bilen uzatmaly.

2. Gaýçy bilen işlemegiň tehnikasy

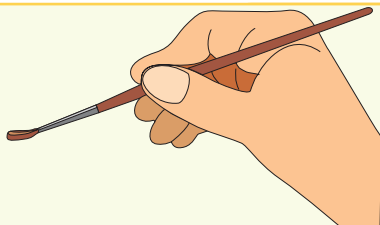


Kagyzy gyrkan wagtda gaýçyny däl, kagyzy aýlap kesiň.

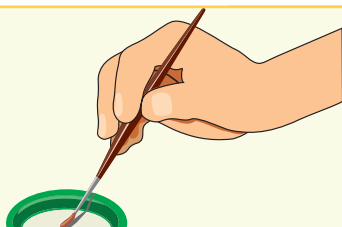


Kagyzdan dogry peýdalanyň.

3. Ýelim bilen işlemegiň kadalary



Çotgany dogry tutuň.



Çotganyň ujuny ýelime batyryp alyň we ýelimi detalyň ters tarapyndan çalyň.



Iş prosesinde arassaçylyga amal etmek bilen gerekli serişdelerden (kartondan, kagyzdan, ýörite polimer esaslardan) peýdalanyň.



Detal bir tekiz ýapyşar ýaly salfetskadan peýdalanyň.



Ýelimiň gapagyny açyk galdyrmaň. Işi gutarandan soň, çotgany gowuja ýuwup, esasa guradyň.



Amaly sapak prosesinde howpsuzlyk tehnikasy kadalaryna amal etmegi unutmaň.

Eziz çagalar! Biz ilki galam, çyzgyç, reňkli kagyz, kagyz düzleýji, gaýçy, ýelim, çotga bilen işlemegi öwreneris.

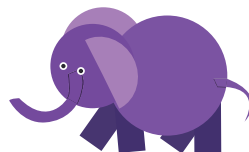
Dürli şekiller
arkaly barlygy
oýlap tapýarys.



Kagyz bilen
işlemegiň syrlaryny
bilýäris.

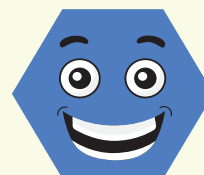
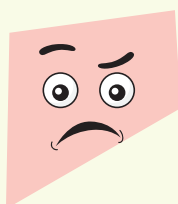
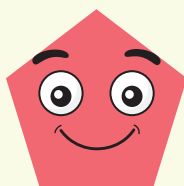
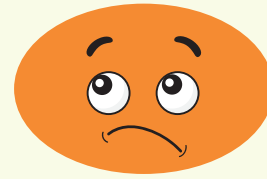
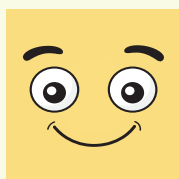


Dürli temalara
degişli applikasiýalar
döretmegi öwrenýäris.



GYZYKLY ŞEKILLER

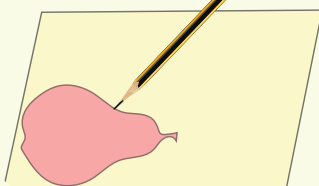
Suratdaky şekilleriň adyny aýdyň:



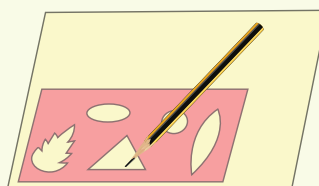
Şekilleri kagyza düşürmek üç hili usulda amala aşyrylýar. Olar aşakdaky ýaly:



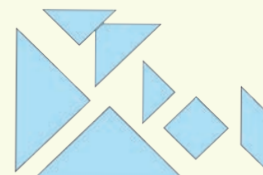
1) şablon;



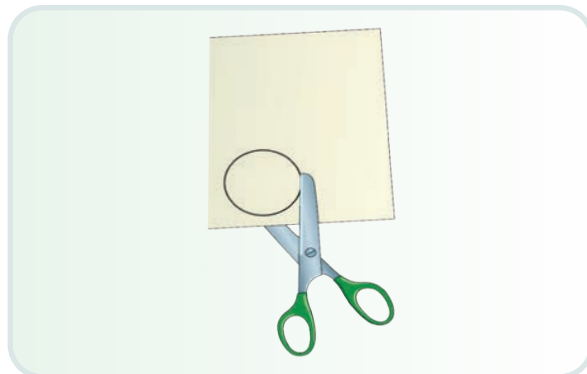
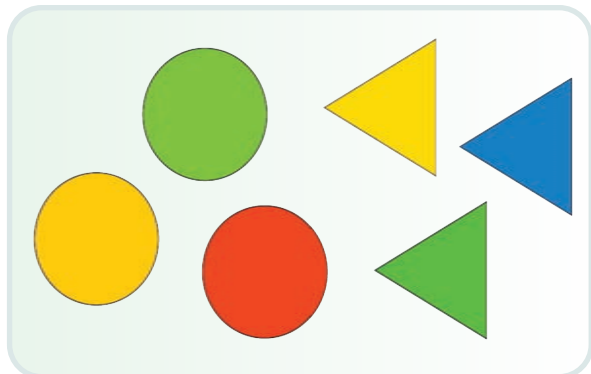
2) trafaret;



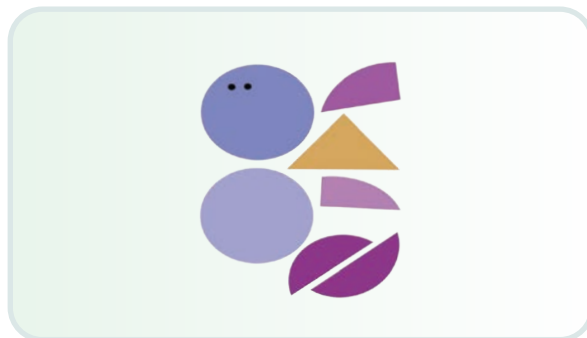
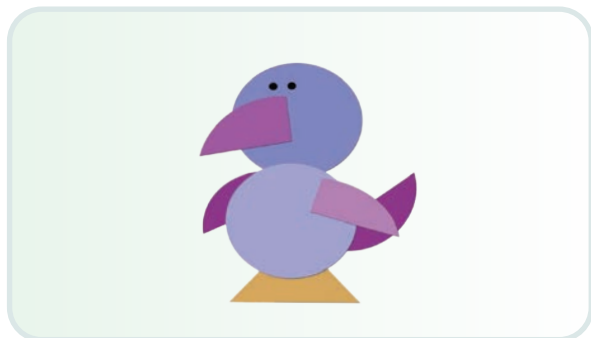
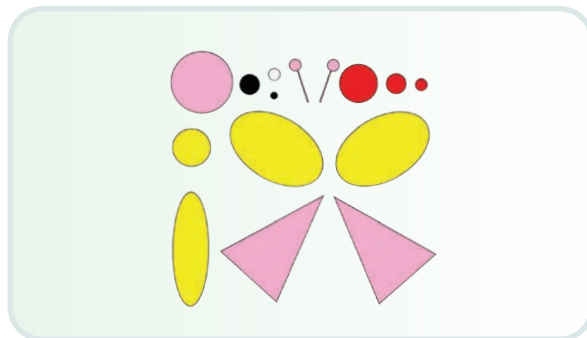
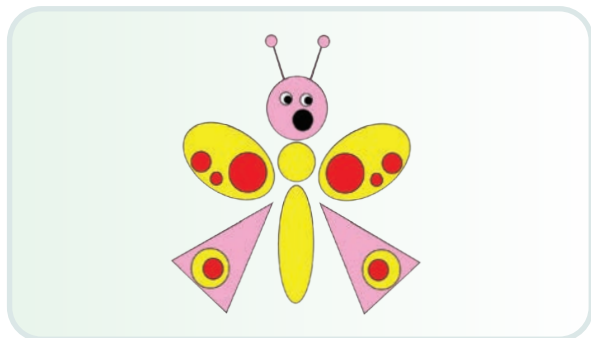
3) tangram.



Geometrik şekilleri emele getiriň



Şekillerden peýdalanyp ýasaň



Geometrik şekillerden peýdalanyp özüňiz islän zatlaryňyzyň şekilini ýasaň.

Ўадыўан сифрлер биле таныўыў we дерўаў

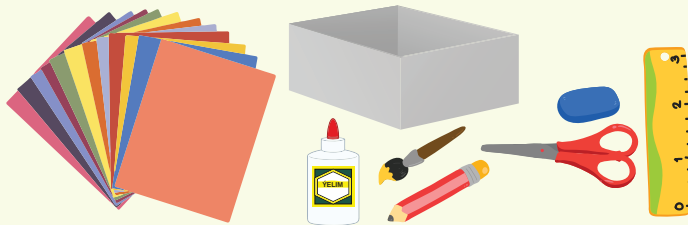




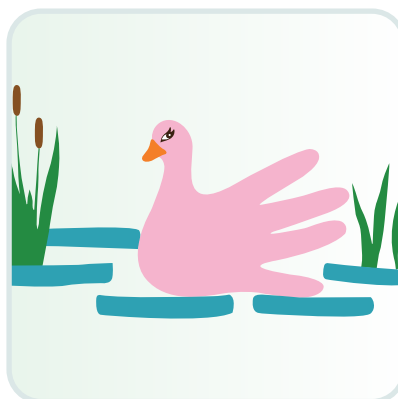
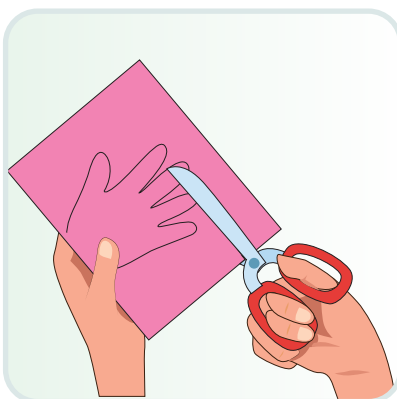
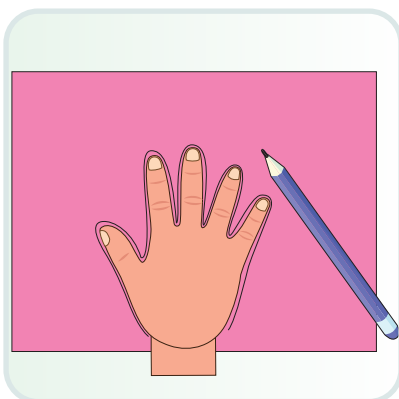
Applikasiya – çeper sungat eserlerini döretmegiň iň yönekeý we aňsat usuly. Applikasiya işinde esasy material kagyz hasaplanýar.

Şadyýan sifrlardan dürli şekilleri emele getirin

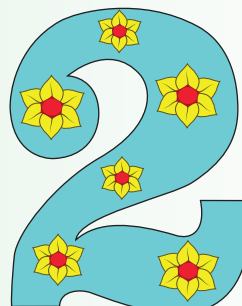
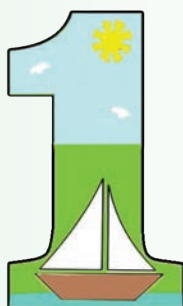




1. Guwuň şekilini ýasamak



2. Applikasiýa usulyndan peýdalanyp sifrleri bezemek



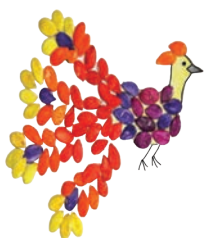
Doglan gün ýa-da baýram çäreleri üçin sifrleri applikasiýa usulynda bezejek boluň.

Eziz agalar! Indi siziň bilen tebigy ig mallaryň kömeginde şekilleri ýasaýarys.

Tebigatyň sylaryny
we hadysalaryny
bileris.



Tebigy materiallardan
applikasiýa döretmegi
öwreneris.



Ussatlygyň sylaryny
oýlap tapýarys.



5—6-njy

DERSLER

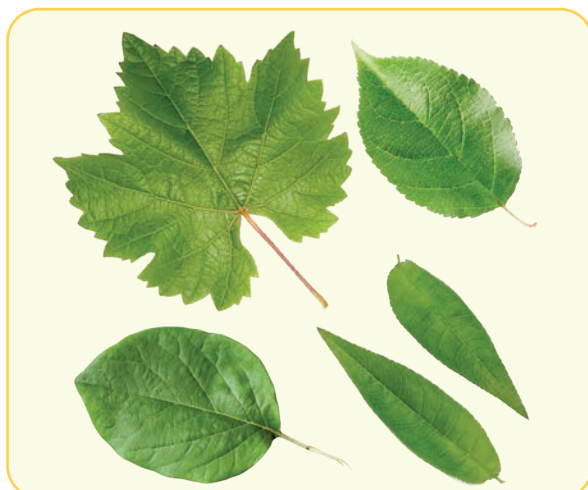
5—6-njy
dersler

TEBIGY MATERIALLAR. ÝAPRAKLARDAN ISLEGLI ŞEKILLERI ÝASAMAK

Aşakdaky tebigy materiallary durmuşda görüpdiňizmi?



1. Miweli agajyň ýapraklary



2. Miwesiz agajyň ýapraklary





Tebigy material hasaplanýan ýapraklary guratmak üçin olary gün şöhlesi düşmeýän ýere kagyzyň ýa-da matanyň üstüne ýaýyp goýmaly.

Ýapraklary guratmagyň yzygiderligi



Ýapraklary saýlap, arassalap alyň.



Ilki ýapraklary kagyzlaryň arasyna goýuň.



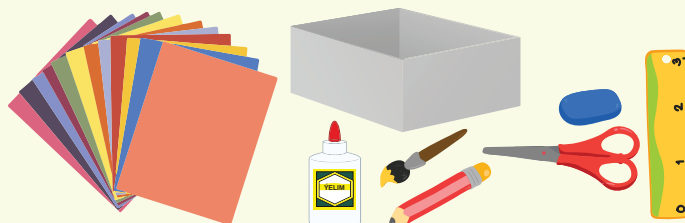
Soň bolsa üstünden galyň kagyzy ýapyp, agyr zady basyryp goýuň.



Eger ýapraklary uzak wagt saklajak bolsaňyz, kagyzy wagtal-wagtal çalşyryp duruň.

5—6-нй

DESSLER



Ўапраклары аппликasiya таўўарламaгыñ usullары



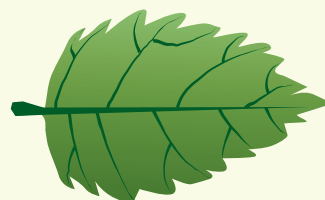
Ўапраклардан шекиллер ўасаñ.

7-nji
ders

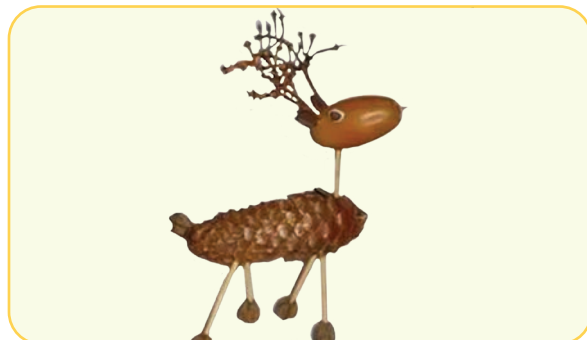
TEBIGY WE DÜRLI MATERIAL- LARDAN HAÝWANLARYŇ ŞEKILINI ÝASAMAK



1. Towşanyň şekilini ýasamak



2. Keýigiň şekilini ýasamak



3. Kirpiniň şekilini ýasamak

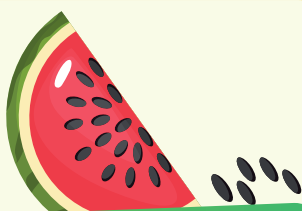


Tebigy we dürli materiallardan haýwanlaryň
şekillerini ýasaň.

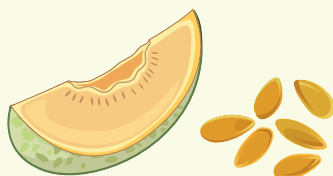
8-nji
ders

TOHUMLARDAN NAGYŞ ÝASAMAK

Bize gerekli tohumlar



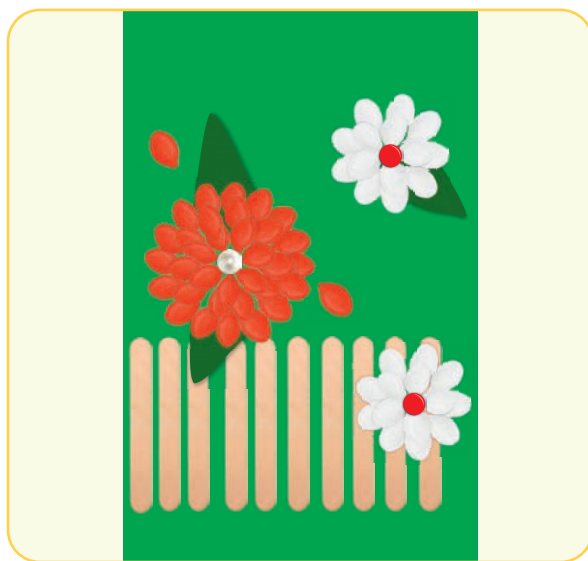
garpyzyň tohumy



gawunyň tohumy



kădiniň tohumy

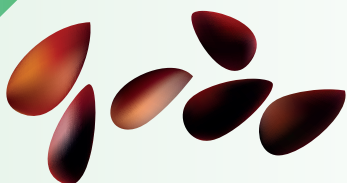


Applikasiýada iýilýän tohumlardan we dänelerden
peýdalanmaň!

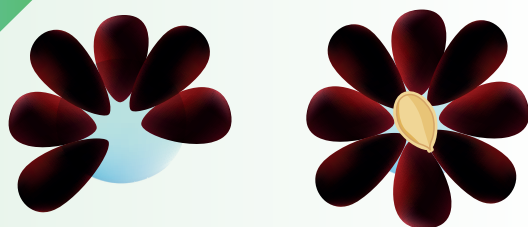
Tohumlardan nagʻş düzmek



1



2



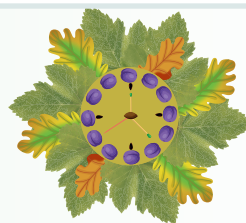
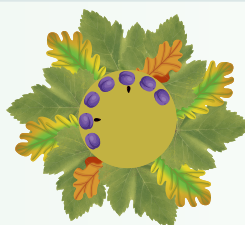
1



2

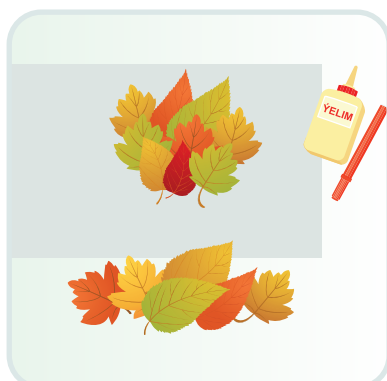


Tebigy materiallardan sagadyň şekilini applikasiya usulynda ýasaň.



9-njy
ders

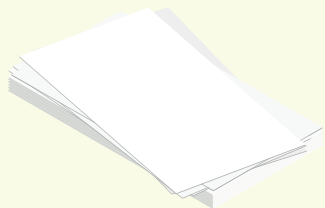
TEBIGY MATERIALLARDAN KIRPINIŇŞEKILINIÝASAMAK



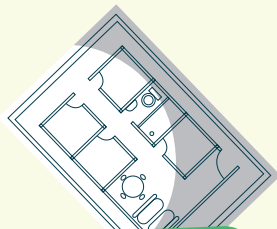
Applikasiya usulynda kirpiniň şekilini ýasap
tamamlaň.

KAGYZ WE ONUŇ GÖRNÜŞLERI. KAGYZY EPLEMEĞIŇ USULLARY

Kagyzyň görnüşleri



Çap kagyzy



Çyzgy kagyzy



Öý-hojalyk kagyzy



Gofri kagyzy



Gazet kagyzy

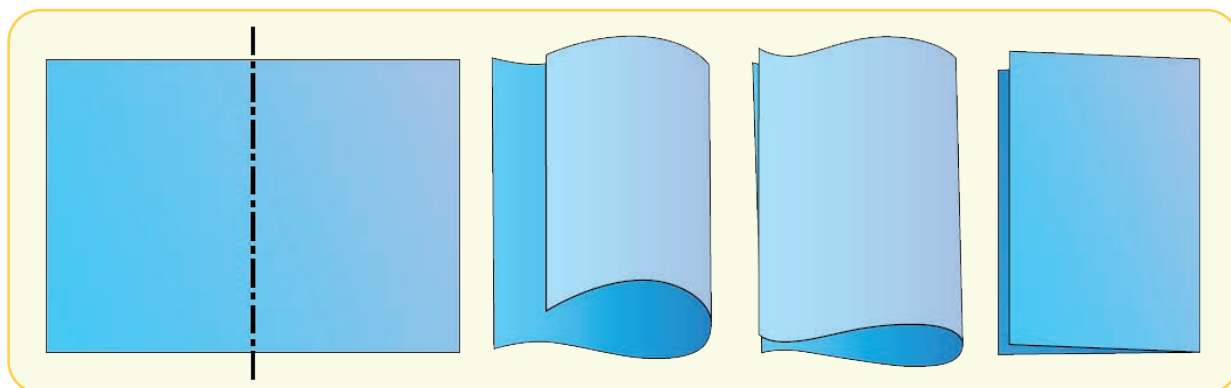


Reňkli kagyz

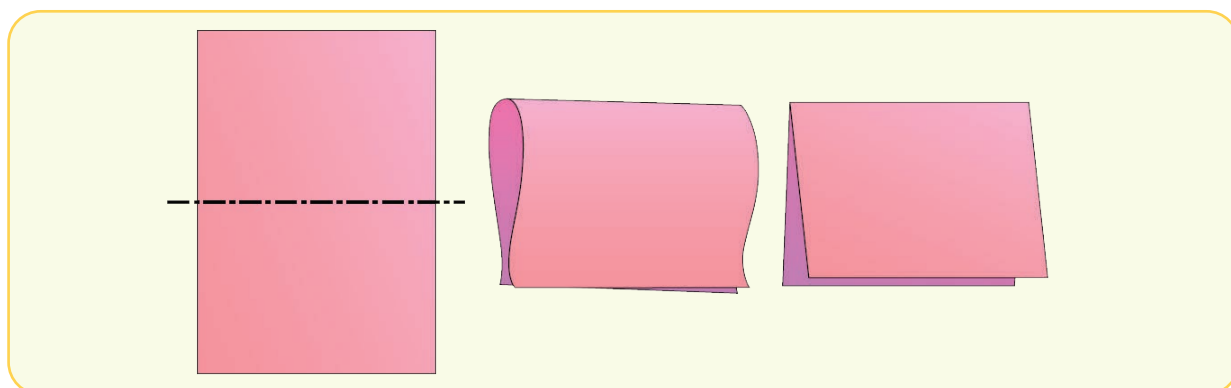


Kagyzyň ýene nähili görnüşleri bardygyny tapyň
we ýoldaşlaryňyza aýdyp beriň.

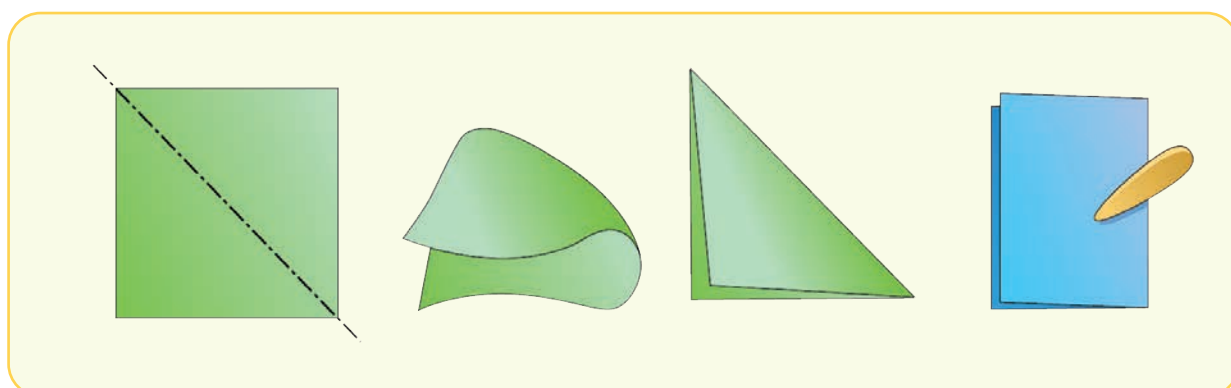
1. Kagzyy wertikal eplemek usuly



2. Kagzyy gorizonttal eplemek usuly



3. Kagzyy burç astynda eplemek usuly

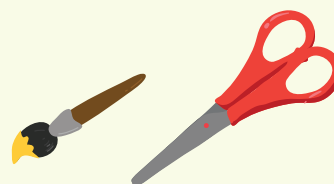


11–12-nji

DERSLER

11–12-nji
dersler

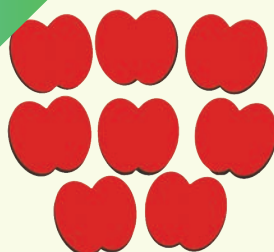
“GÜYZÜŇ NYGMATLARY” TEMASYNDA KOMPOZISIYA YASAMAK. KÖPÇÜLIK IŞI



1



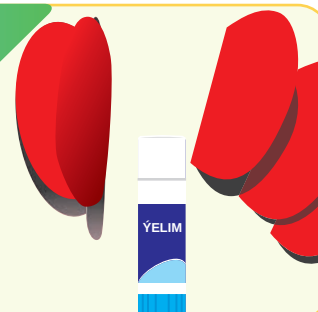
2



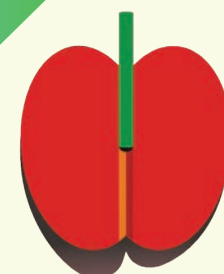
3

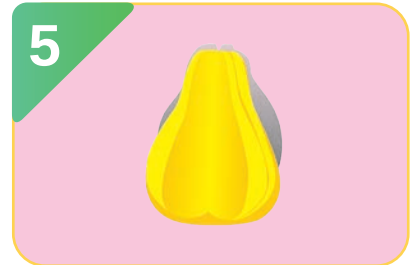
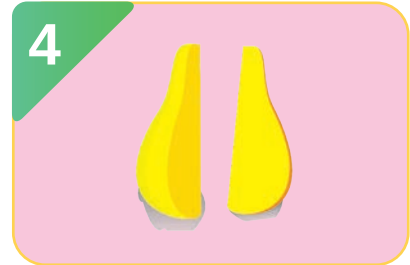
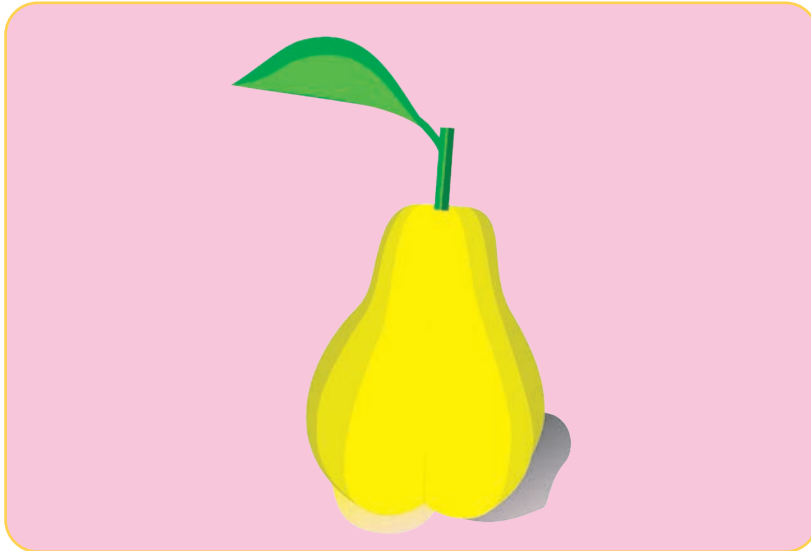
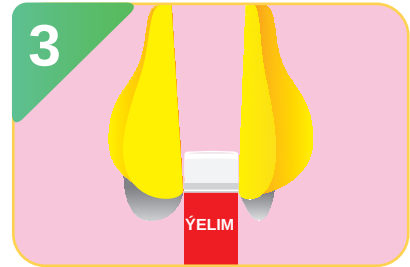
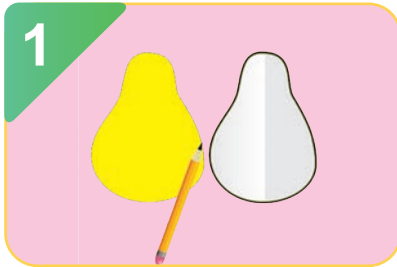


4



5





Güýzde bişýän miweleriň şekilini reňkli kagyzdan ýasaň.

KÖMELEGIÑ ŞEKILINI ÝASAMAK



1. Kömelek nirelerde ösýär?
2. Ony iýmek mümkinmi?



Kömelekleri öwreniň we derňäň.

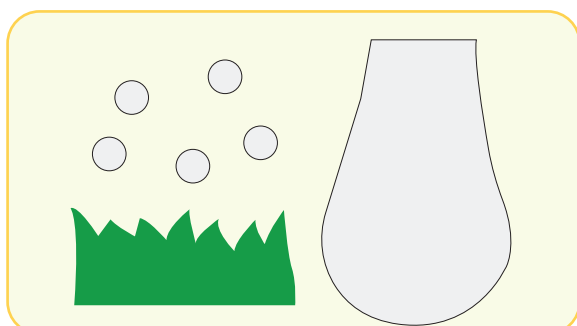
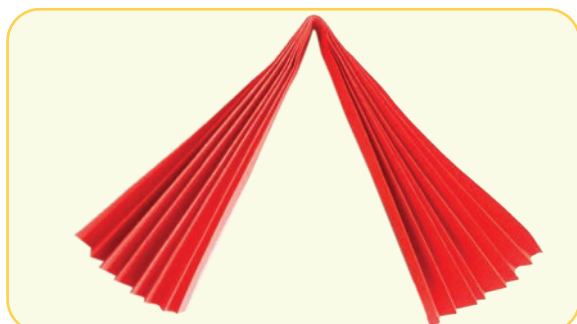
1. Iýmäge ýaramly kömelekler



2. Zäherli kömelekler



Kömelek ýasamak



Kömelegiň şekilini ýasamagy tamamlañ.

GURLUŞYKÇY KÄRI. JAYJAGAZ GURMAK

Eziz okuwçylar!



Göge direlýän binalary, mekdepleri,
keselhanalary, dynç alyş mesgenlerini haýsy
käriň eýeleri gurýar?



Gurluşykçy – konstruktor-inženerleriň taslamasy
esasynda desgalary gurýan käriň eýesi.



Gurluşykçy bolmak üçin nämeleri bilmeli?



Aşakdaky suratlar esasynda gurluşykçy kärine düşündiriş beriň.



Kagyzdan öýjagazyň maketini ýasamak



1



2



3



4



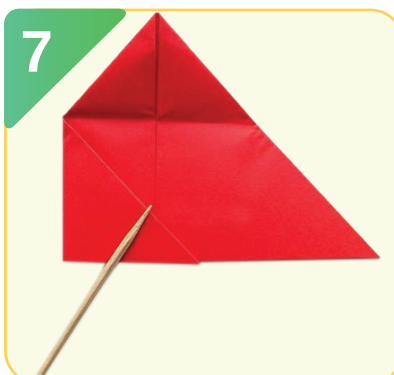
5



6



7

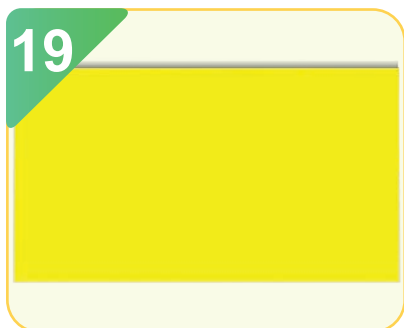
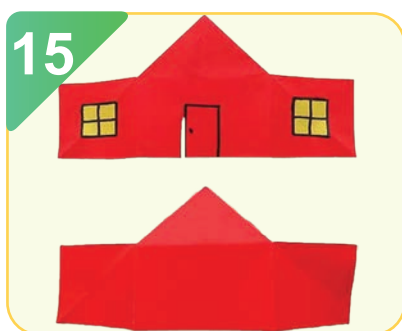
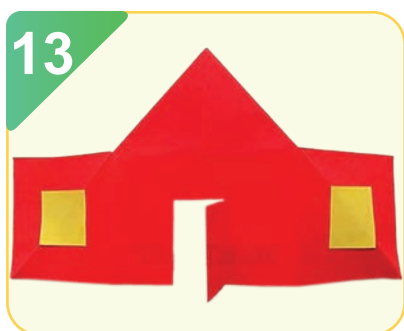
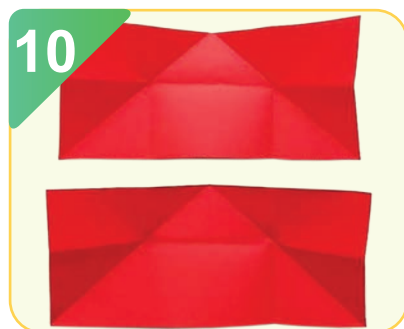


8



9





Öýjagazyň maketini ýasamaga synanyşyň.

15—16-
njy
dersler

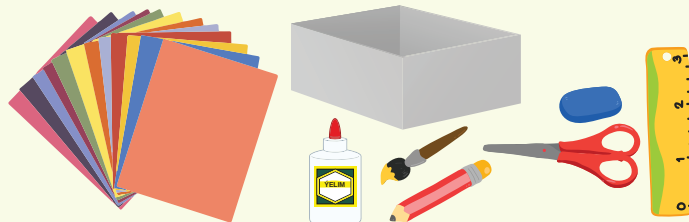
DÜRLI KAGYZLARDAN TÄZE ÝYL ARÇASYNÝ WE ONUŇ BEZEGLERINI ÝASAMAK

Täze ýyl baýramynda arça bezelýär.

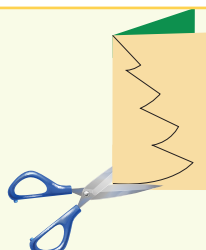
Ilki arça ýasaň. Arçany bezände özüňiz taýýarlan
oýnawaçlardan peýdalanyň.



Arçany birnäçe usulda ýasamak mümkin. Biz munuň
iki hili usulyna seredýäris.



Reňkli kagyzy iki epläp, galam bilen arçanyň şekilini çyzýarys.



Gaýçy bilen kontur çyzygy boýunça gyrkyp çykýarys. Prosesi iki gezek gaýtalaýarys.



Ýelimiň kömeginde arçalary ýapyşdyrýarys. Lentadan ilgençek taýýarlap, ony ýelim bilen arça ýapyşdyrýarys.

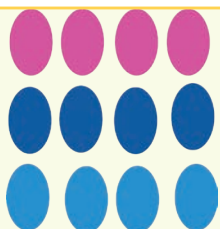


Dürli reňkli sapaklardan gar tozgajyklaryny ýa-da ýagyş damjalaryny ýasaýarys.



Arça ýelim çalyp, çalnan ýelimiň üstüne gar tozgajyklaryny sepip çykýarys.

Arça üçin oýnawaçlar ýasamak



Gerekli şekilleri
kesip alýarys.



Şekili deň ikä
epleýäris.



Birinji şekiliň bir
tarapyny ikinji
şekiliň bir tarapyna
ýelimleýäris.



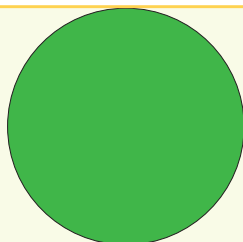
Artykmaç ýelimleri
mata bilen
süpürýäris.



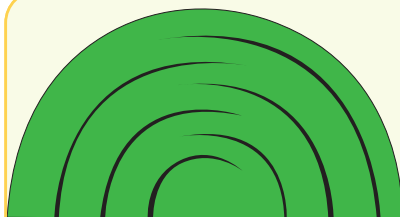
Şekiliň arasyny
açýarys.



Arça asmak üçin
taýýar oýnawaja
ýüpi ýelimleýäris.



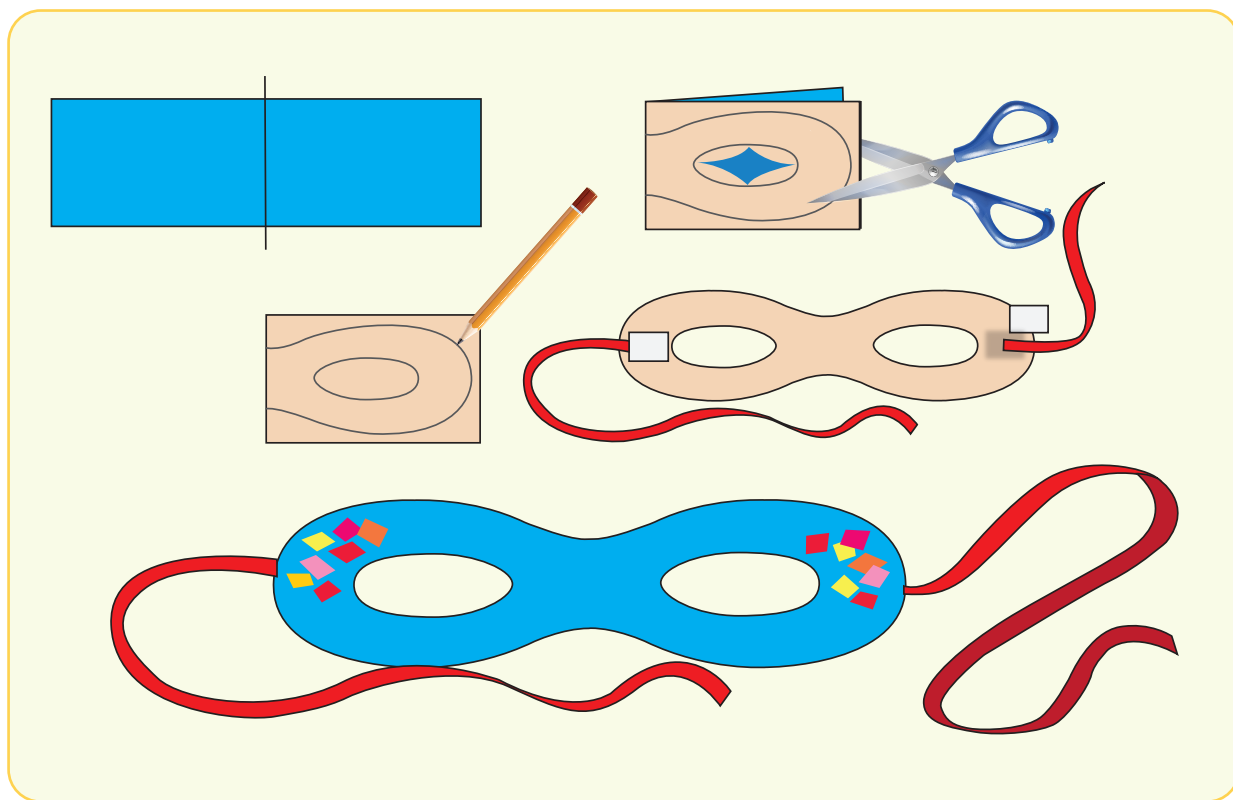
Şekili kesip
alýarys we deň ikä
epleýäris.



Teswir esasynda
çyzyk çyzýarys we
ony gyrkýarys.



Taýýar bolan
oýnawaja ýüpi
ýelimleýäris.



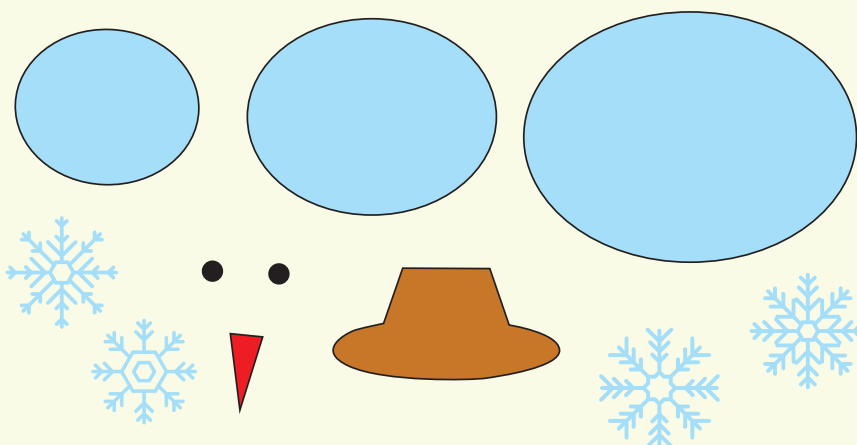
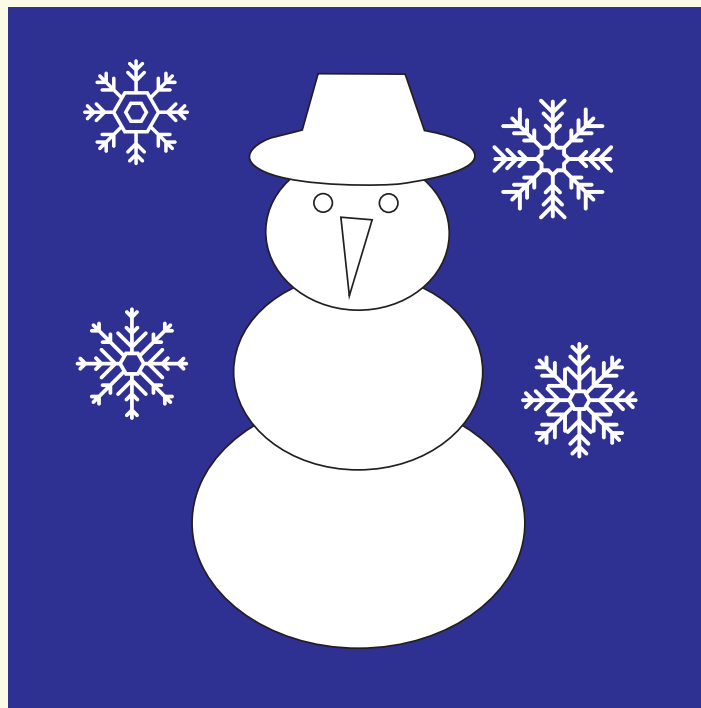
1. Karton kagzyz iki epläp, nykap äýnegiň suratyny çekýäris.
2. Gaýçy bilen kontur çyzyklar boýunça gyrkýarys.
3. Lentalary nykabyň ters tarapyna ýelimleýäris.
4. Dürli şekillerden peýdalanyp nykaby bezeýäris.



Täze ýyl baýramy üçin nykap ýasamaga synanyşyň.

APPLIKASIYA USULYDA GYŞYŇ GÖRNÜŞINI ÝASAMAK

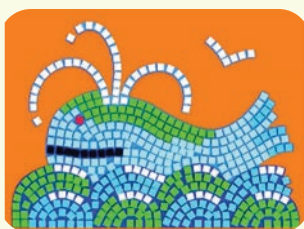




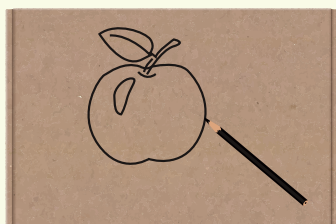
Özüñiz islän şekillerden peýdalanyp gyşyň
görnüşini dörediň.

MOZAIKA USULYND ALMANYŇ ŞEKILINI ÝASAMAK

Mozaika dürli böleklerden şekil emele getirmekdir. Mozaikadaky şekiller reňkine we düzülişine görä bir-birinden tapawutlanýar.



Almanyň şekilini ýasamagyň tehnologiýasy



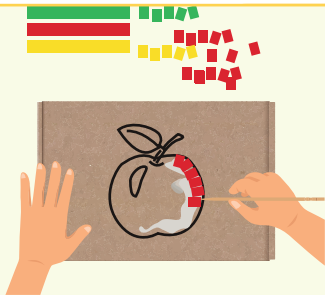
Kartonyň merkezine şablonyň kömeginde almanyň şekilini çyzýarys.



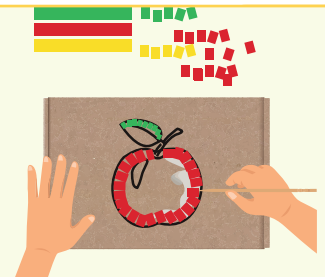
Gyzyl, sary, ýaşyl reňkli kagyzlary alyp, olary çetinden başlap birmeňzeş ölçegde maýdalaýarys.



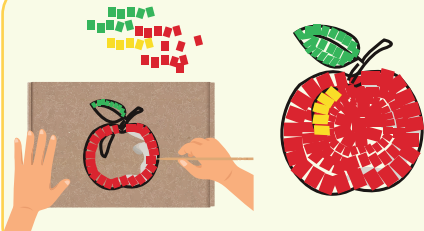
Kontur çyzygyndan çykmaздan PWA ýelimini ýuka edip çalýarys.



Maýdalanan kagyz böleklerini diş synçgasy bilen kontur boýunça ýapyşdyrýarys. Ýelimiň artykmajyny kagyz salfetka bilen alyp taşlaýarys.



Ýapraklaryny hem şu tertipde ýapyşdyrýarys. Soň almanyň ortasyny öz islegimize görä doldurýarys.



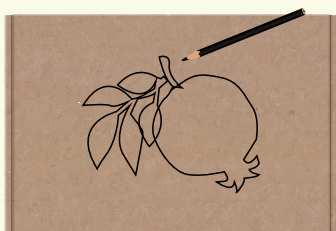
Taýýar bolan applikasiýany guradýarys.



Almanyň şekilini ýasamagy tamamlañ.

MOZAIKA USULYNDÁ HURMANYŇ WE NARYŇ ŞEKILLERINI ÝASAMAK

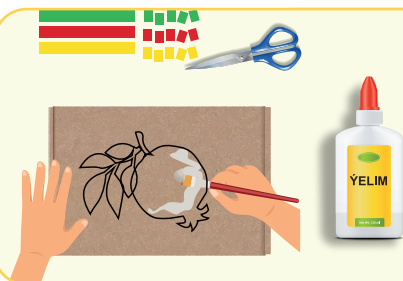
1. Naryň şekilini ýasamagyň tehnologiýasy



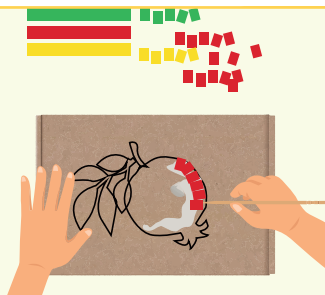
Kartonyň merkezine şablonyň kömeginde naryň şekilini çyzýarys.



Gyzyl, sary, ýaşyl reňkli kagyzlary alyp, olary gyrasyndan başlap birmeňzeş ölçegde maýdalaýarys.



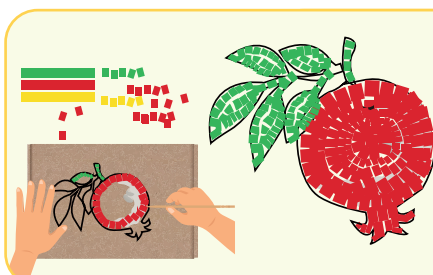
Kontur çyzygyndan çykmaздan PWA ýelimini ýuka edip çalýarys.



Maýdalanan kagyz böleklerini diş synçgasy bilen kontur boýunça ýapyşdyrars. Ýelimiň artykmajyny kagyz salfetka bilen alyp taşlaýarys.

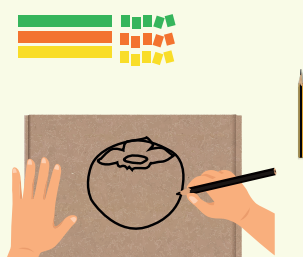


Ўапракларынй һем шу тertiпде ўапышдырўарыс. Соң нарынъ ортасынй ўз ислегимизе гўрўа долдурўарыс.



Таўўар болан аппликasiўаны гурадўарыс.

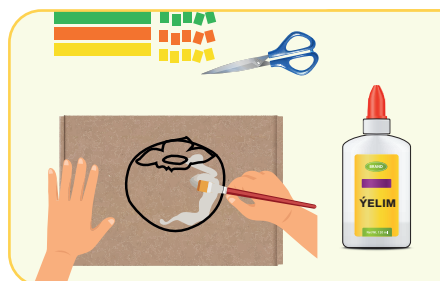
2. Hurmanyň şekilini ýasamagyň tehnologiýasy



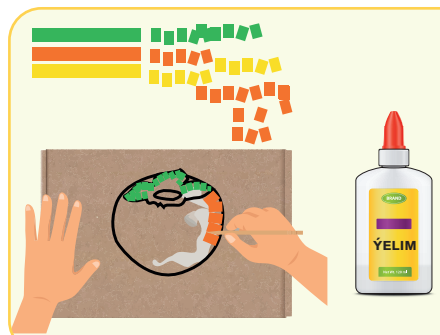
Kartonyň merkezine şablonyň kömeginde hurmanyň şekilini çyzýarys.



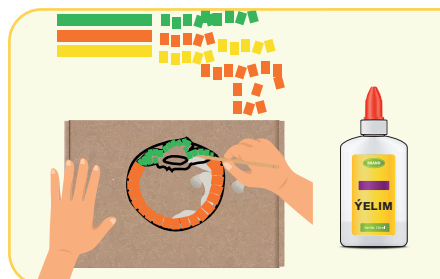
Mămişi reňk we ýaşyl reňkli kagyzlary alyp, olary çetinden başlap birmeňzeş ölçegde maýdalaýarys.



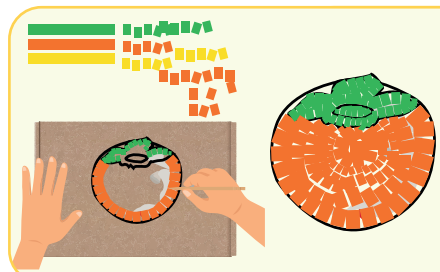
Kontur çyzygyndan çykmazdan PWA ýelimini ýuka edip çalýarys.



Maýdalananan kagyz böleklerini diň synçgasy bilen kontur boýunça ýapyşdyrýarys. Ýelimiň artykmajyny kagyz salfetka bilen alyp taşlaýarys.



Ýapraklaryny hem şu tertipde ýapyşdyrýarys. Soň hurmanyň ortasyny öz öz islegimize görä doldurýarys.



Taýýar bolan applikasiýany guradýarys.



Naryň we hurmanyň şekillerini ýasamagy tamamlañ.

20–21
-nji
dersler

“SEBETDÄKI MIWELER” TEMASYNDA KOMPOZISIÝA ÝASAMAK

Sebetdäki miweleriň şekilini ýasamagyň tehnologiýasy



Kartonyň merkezine şablonyň kömeginde sebetdäki miweleriň şekilini çyzýarys.



Mämişi reňk we ýaşyl reňkli kagyzlary alyp, olary gyrasyndan başlap birmeňzeş ölçegde maýdalaýarys.



Kontur çyzygyndan çykmazdan PWA ýelimini ýuka edip çalýarys.



Reňkli kagyz böleklerini kontur boýunça ýapyşdyrýarys.



Taýýar bolan applikasiýany guradýarys.

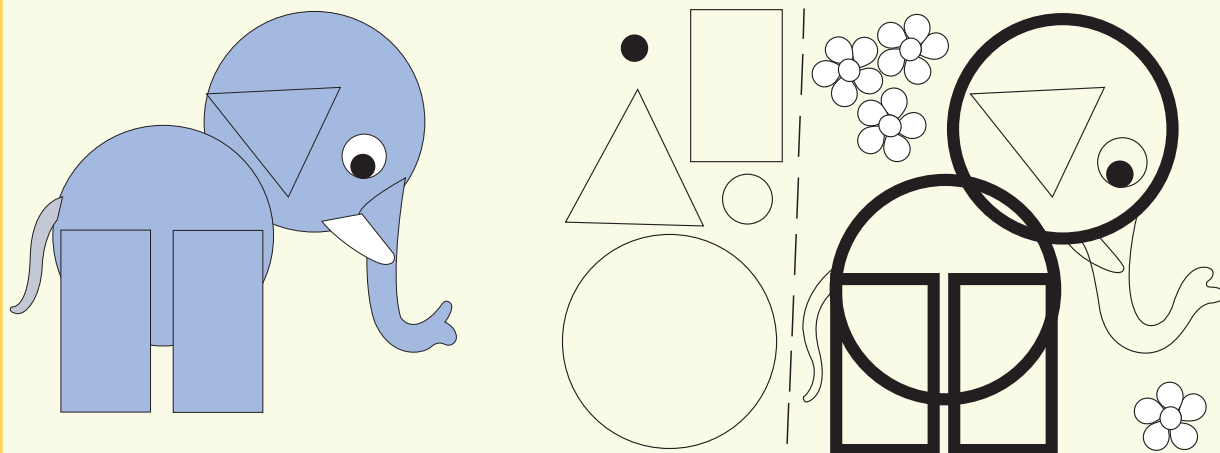


Sebetdäki miweler şekilini ýasamagy
tamamlaň.

PILIŇ WE ŽIRAFYŇ ŞEKILLERINI ÝASAMAK

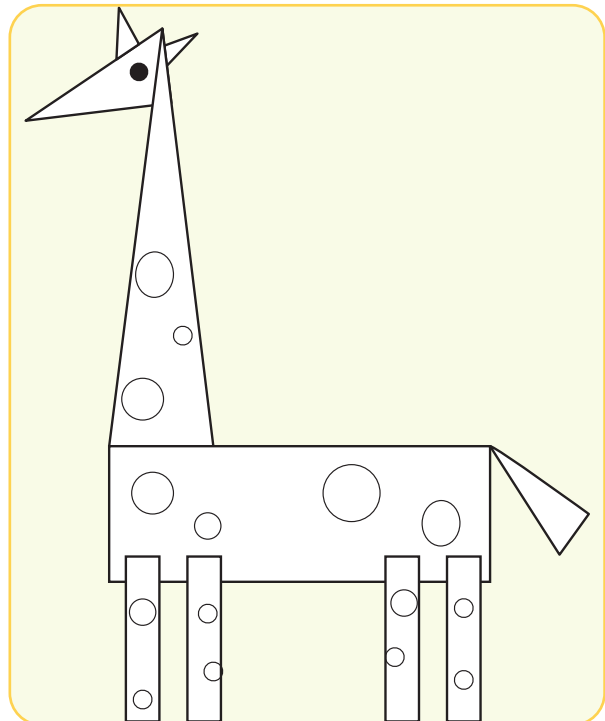
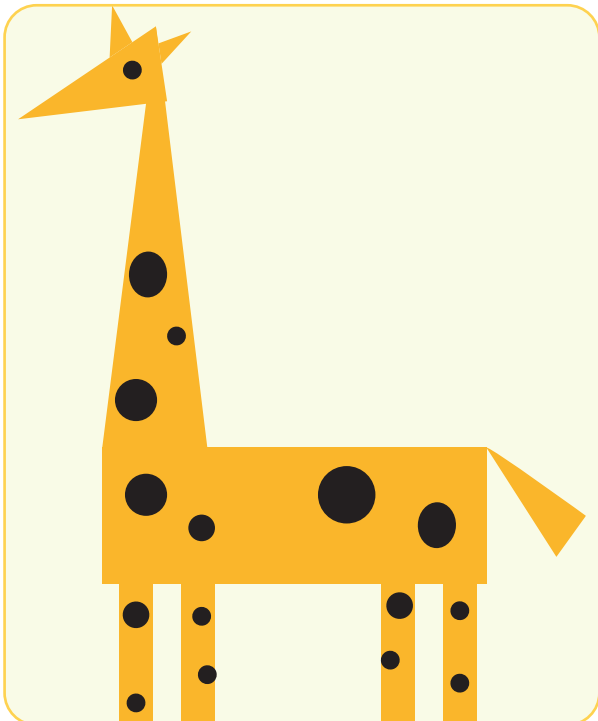
Piliň şekilini ýasamak:

1. Piliň beden we kelle bölekleri üçin kagyzdan iki tegelek şekilini gyrkyp alýarys.
2. Gulagy üçburçluk şeklinde, aýaklary dogry dörtburçluk şeklinde bolýar.
3. Egri we bezegli şekilleriň kömeginde guýrugy, bir jübüt iri dişi we hortumyny, uly we içi boýalan kiçi tegelejigiň kömeginde gözünü ýasaýarys.
4. Tegelejik şekillerden peýdalanyp gülleri özümüz oýlap tapýarys.



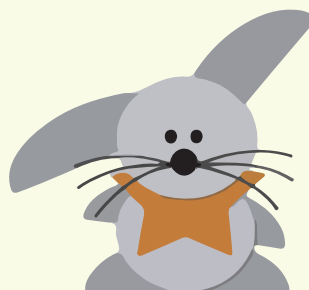
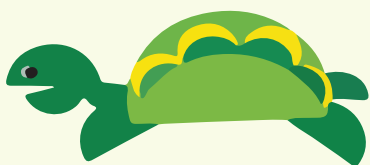
Žirafyň şekilini ýasamak:

1. Žirafyň boýny, kellesi, guýrugy, gulaklary üçburçluk şeklinde, bedeni we aýaklary bolsa dogry dörtburçluk şeklinde bolýar.
2. Bedenini tegelejekler bilen bezeýäris.



Piliň we žirafyň şekillerini ýasamagy tamamlañ.

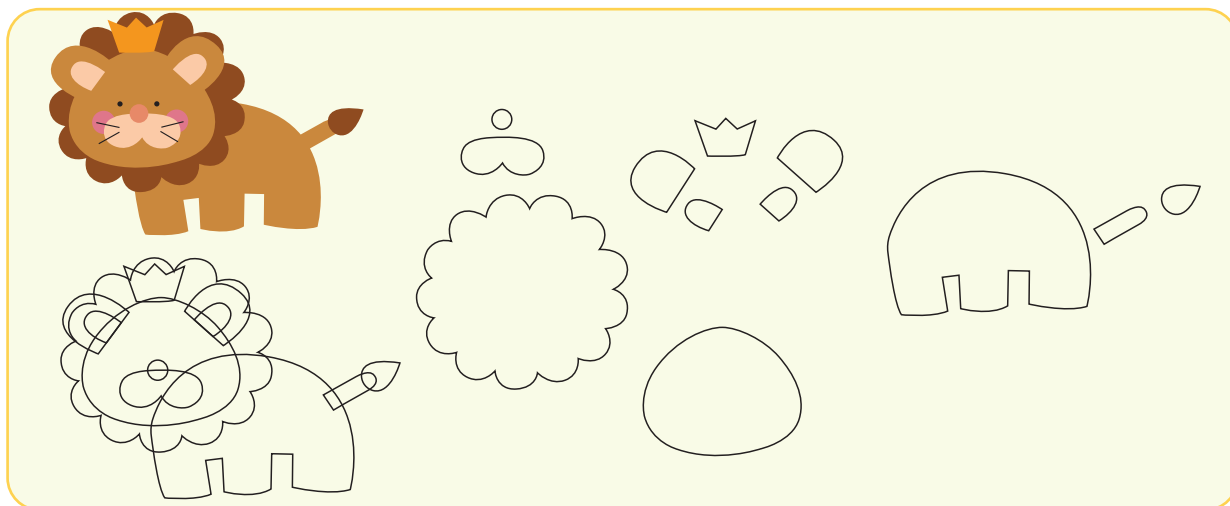
“HAÝWANAT BAGY” TEMAŞYŇDA KOMPOZISIÝA ÝASAMAK



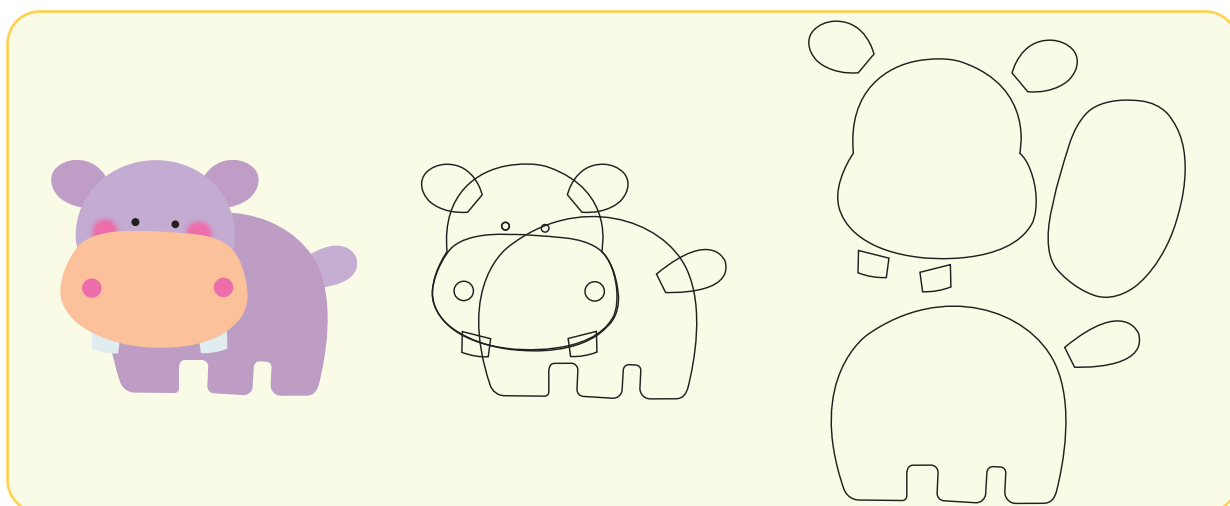
Belkanyň şekilini ýasamak



Şiriň şekilini ýasamak



Begemotyň şekilini ýasamak



“Haýwanat bagy” temasynda kompozisiýany
tamamlaň.

KAGYZLY LENTADAN ULY GÖWRÜMLI GÜLÜŇ ŞEKILINI ÝASAMAK

1-nji usul. Reňkli kagyzlardan uly göwrümlü gül ýasamak

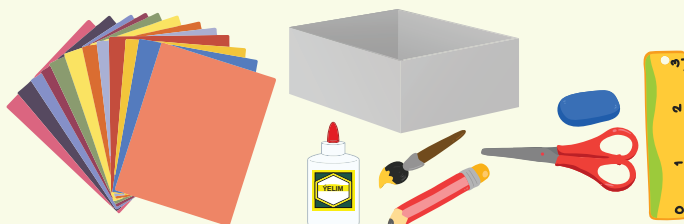


2-nji usul. Gazet we žurnallaryň kömeginde uly göwrümlü gül ýasamak



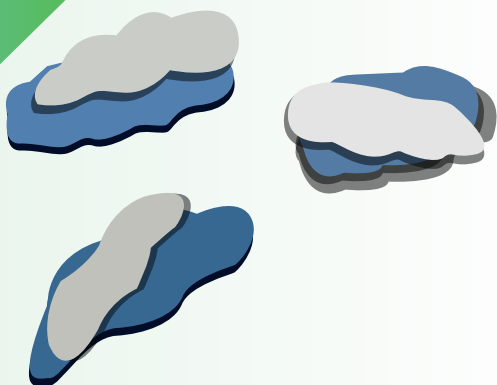


Uly göwrümlü gülüň şekilini ýasamagy tamamlañ.

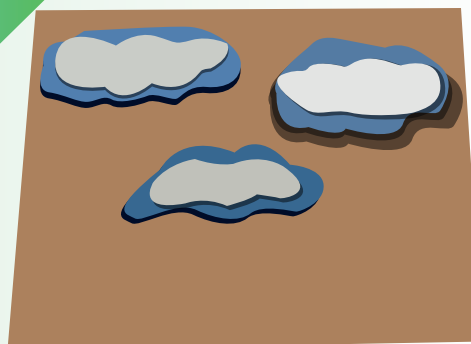


Kagyzy eplemek usulynyň kömeginde saýawan ýasamak

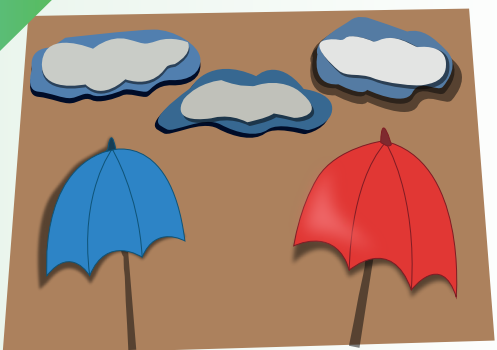
1



2



3



4





1. Reñkli kagyzy alýarys we galam bilen birmeñzeş şekilde 15 sany tegelejigi çyzýarys.
2. Tegelejikleri gaýçynyň kömeginde gyrkyp alýarys.
3. Olary deň ikä, soň ýene bir gezek deň ikä epleýäris. Netijede dört epin emele gelýär.



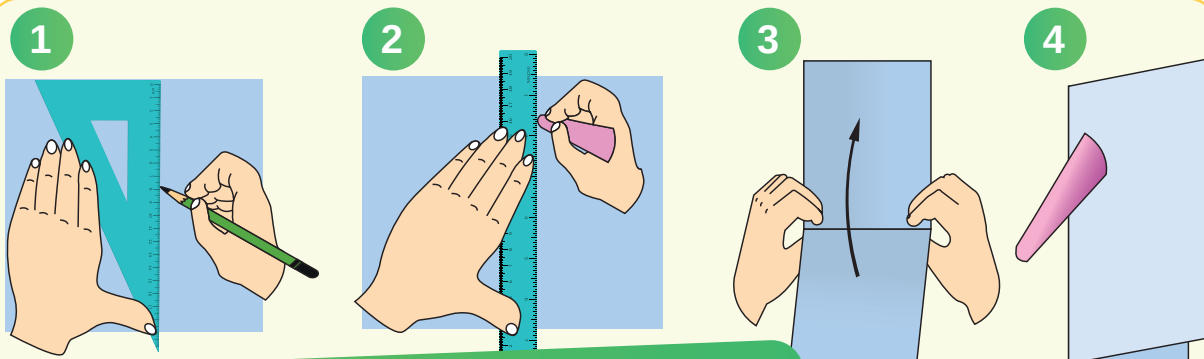
4. Eplenen ähli şekilleri ýelimiň ýa-da skotçyň kömeginde birbirine ýapyşdyrýarys.
5. Olaryň arasyndan kokteýl naýuny geçirsek, kiçijik saýawan emele gelýär.



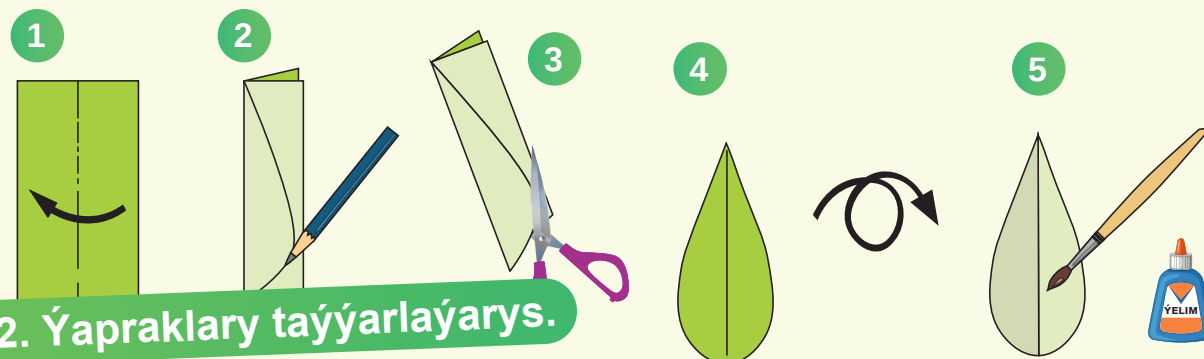
Taýýar bölekleri applikasiýa usulynda reñkli kartona ýelmäň.

BARLAG IŞI. GUTLAG HATY ÝÄSAMAK

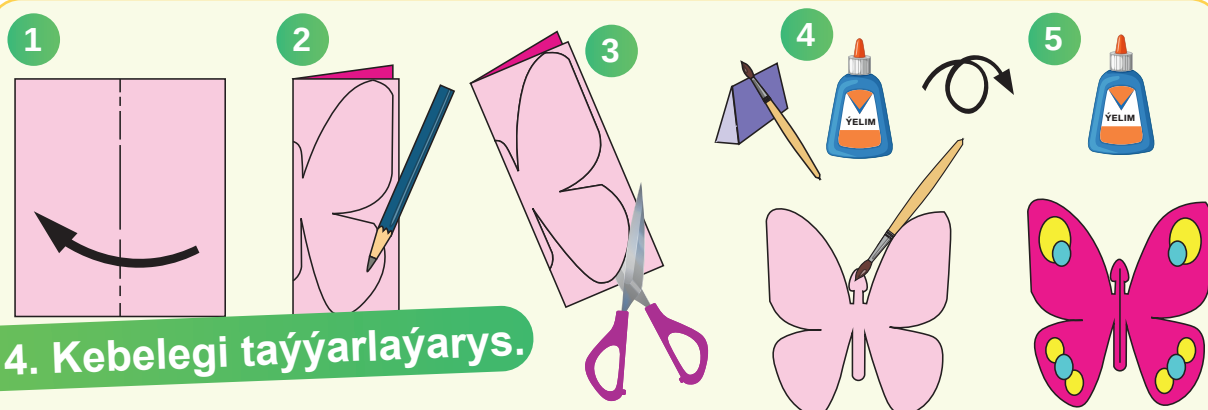
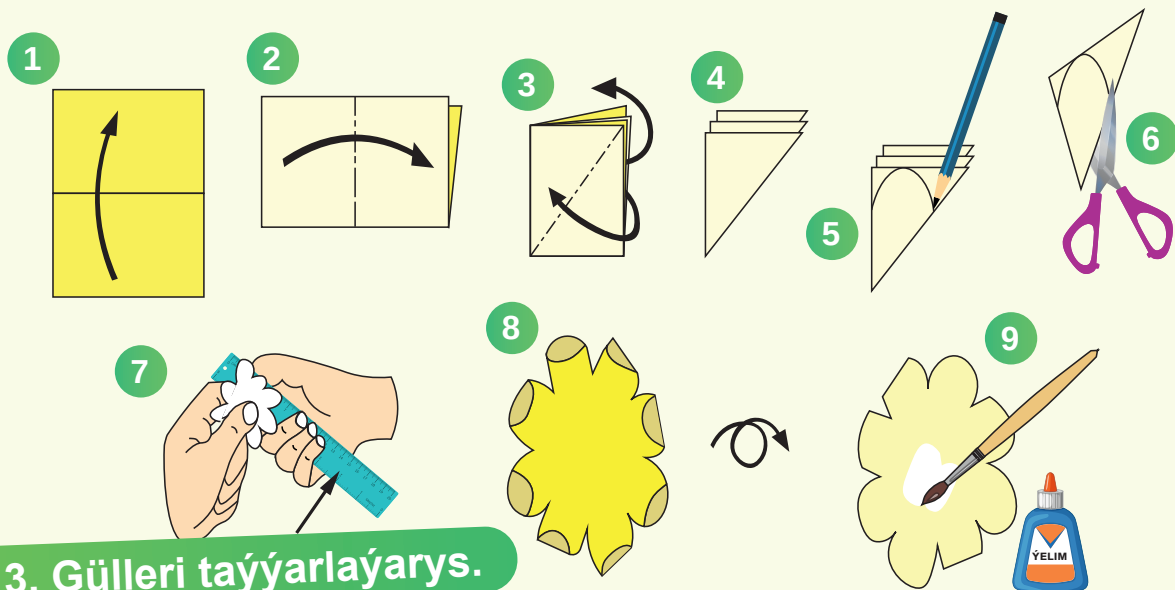
Baýrama gutlag haty taýýarlamak



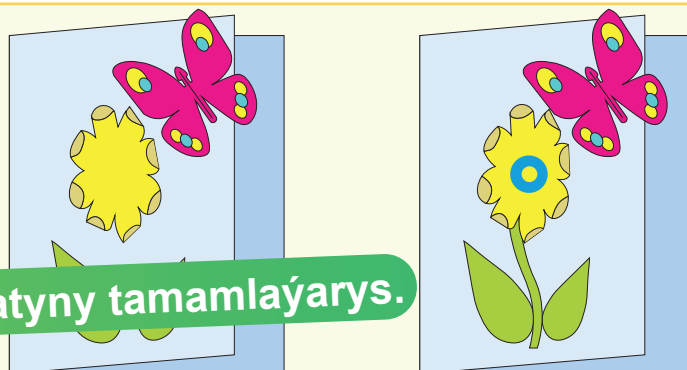
1. Gutlag haty üçin esas taýýarlaýarys.



2. Ýapraklary taýýarlaýarys.



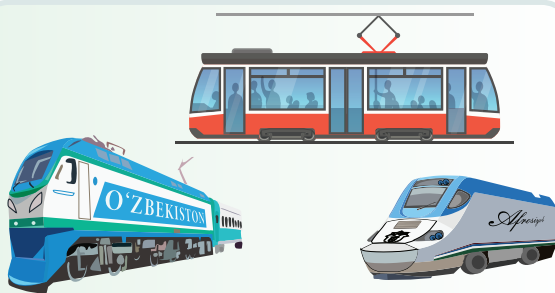
5. Gutlag hatyny tamamlamaýarys.



Gutlag haty ýasamagy tamamlañ.

TRANSPORT GÖRNÜŞLERI WE ONUŇ ADAMYŇ DURMUŞYNDAKY ORNY

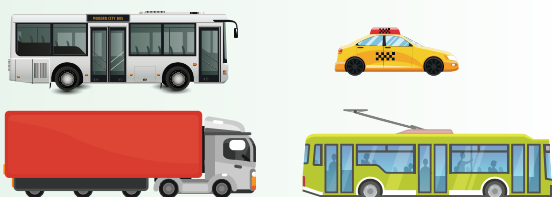
Transportyň görnüşleri



Demir ýol transporty



Suw transporty



Awtotransportlar



Howa transporty



Siz haýsy transport görnüşinden köpräk
peýdalanýarsyňyz?

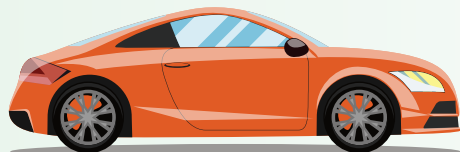
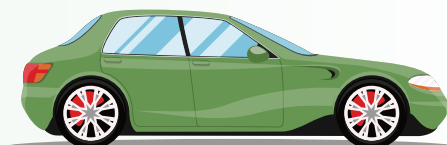
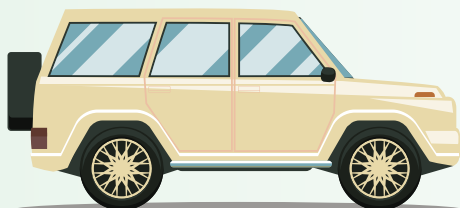
28-nji
ders

KAGZY EPLEMEK USULYNYŇ KÖMEGINDE AWTOBOMBILINI ŞEKILINI ÝASAMAK

Awtotransportyň görnüşleri

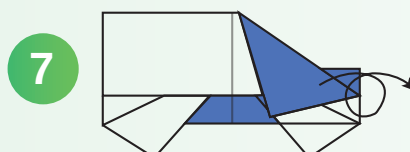
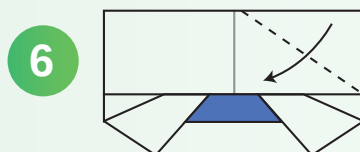
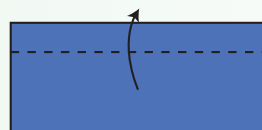
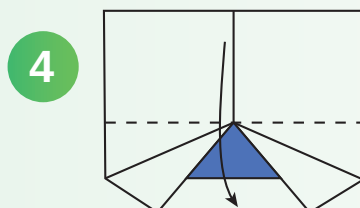
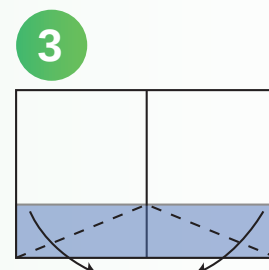
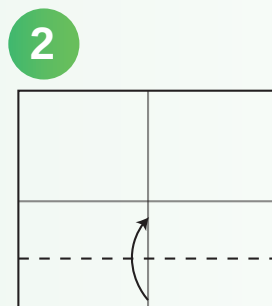
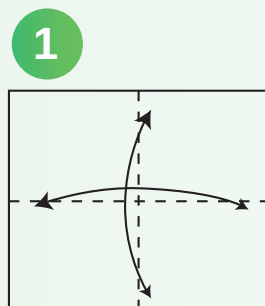
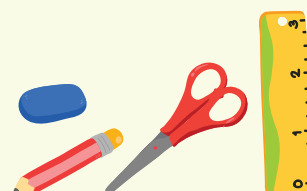


Ýük maşynlary



Ýeňil maşynlar

Origami usulynda awtomobil ýasamak

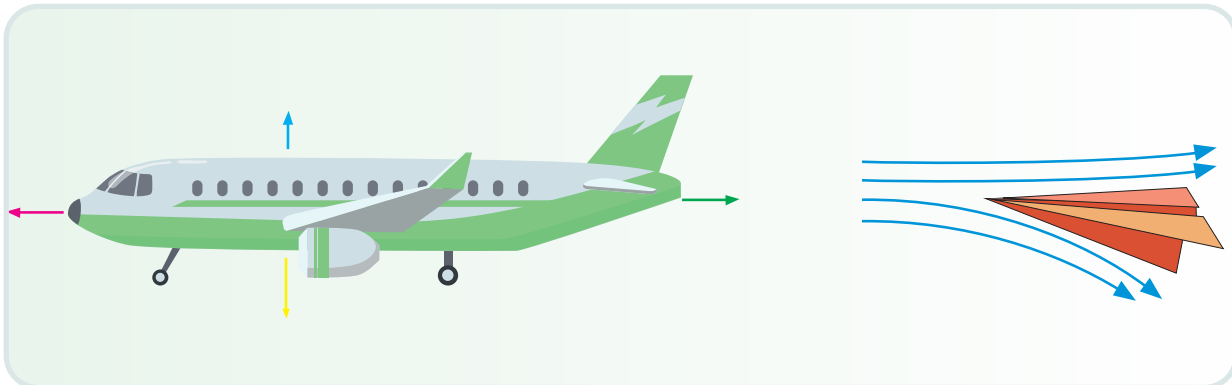
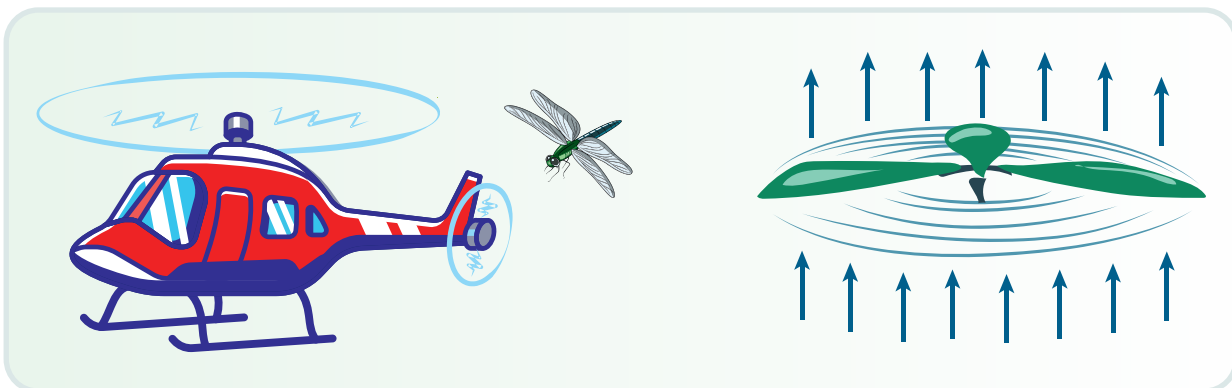


Kagzy eplemek arkaly ýene nähili awtomobiliň modelini döretmek mümkin?

29-njy
ders

KAGYZY EPLEMEK USULYNYŇ KÖMEGINDE UÇARYŇ ŞEKILINI ÝASAMAK

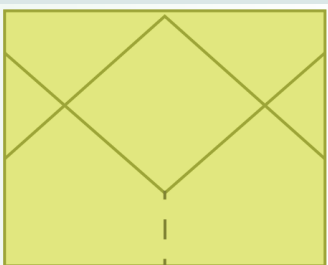
Uçuş apparatlar nähili uçýar?



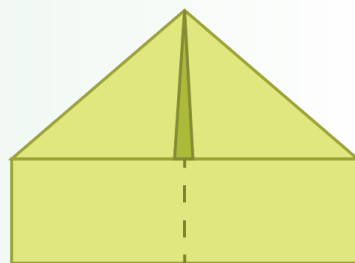
Origami usulynda uçar ýasamak



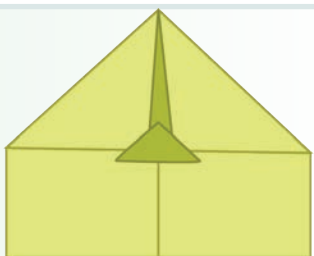
1



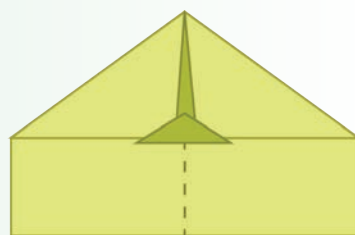
2



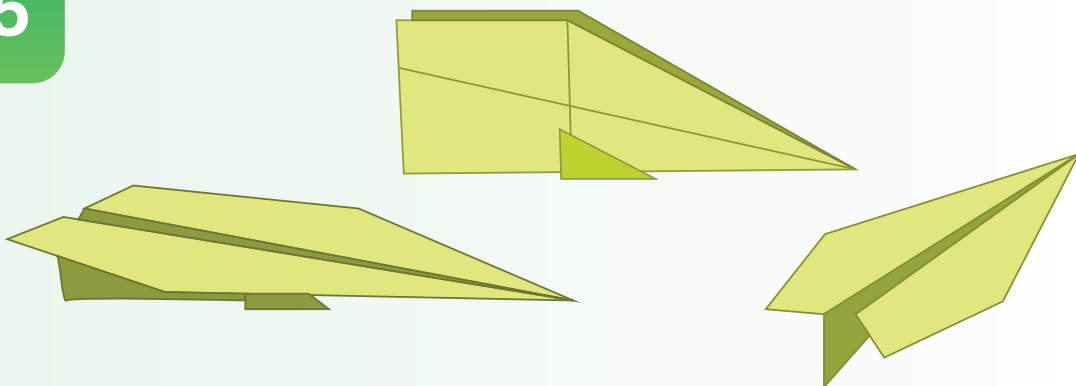
3



4



5

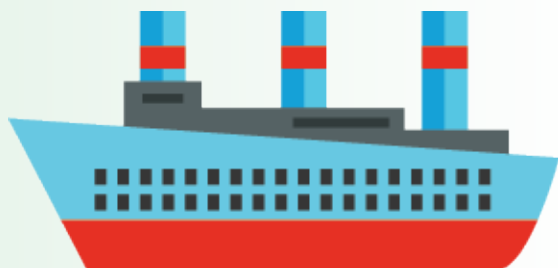


Uçaryň şekilini taýýarlaň.

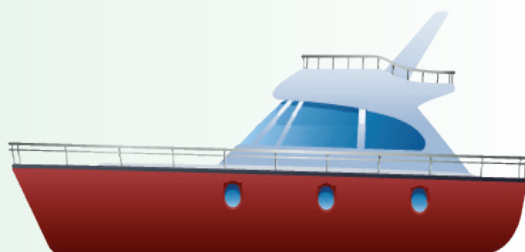
30-njy
ders

KAGZY EPLEMEK USULYNYŇ KÖMEGINDE GÄMINIŇ ŞEKILINI ÝASAMAK

Suw transportynyň görnüşleri



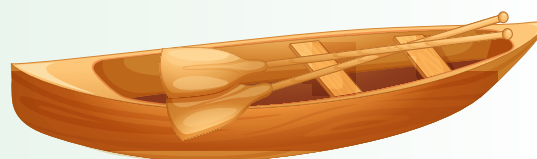
Teplohod



Kater



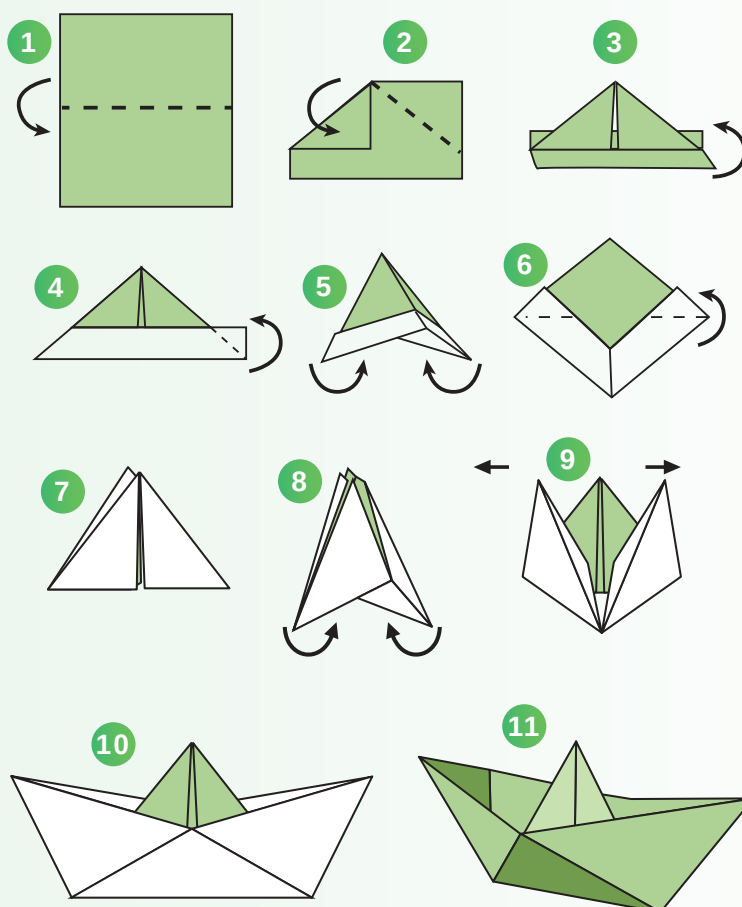
Laýner



Gaýyk



Origami usulynda gämi ýasamak



Gämäni applikasiýa usulynda ýasamaga synanyşyň.

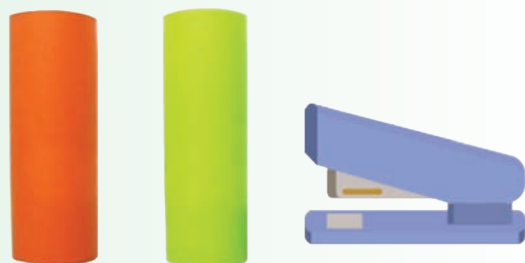
31-nji
ders

BARLAG IŞI

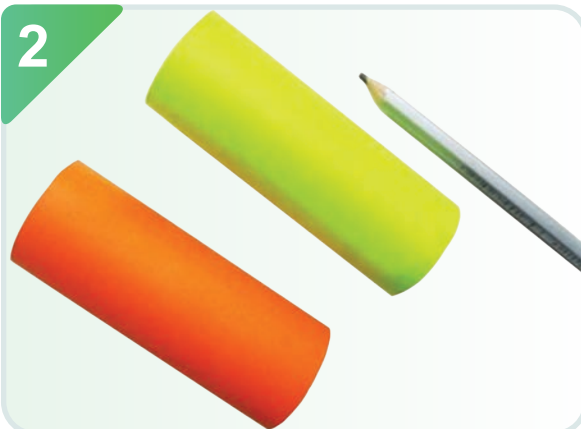
Çapyşyk awtomobilini ýasamak



1



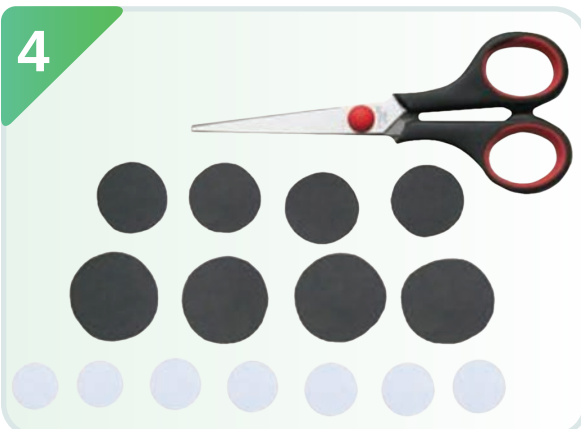
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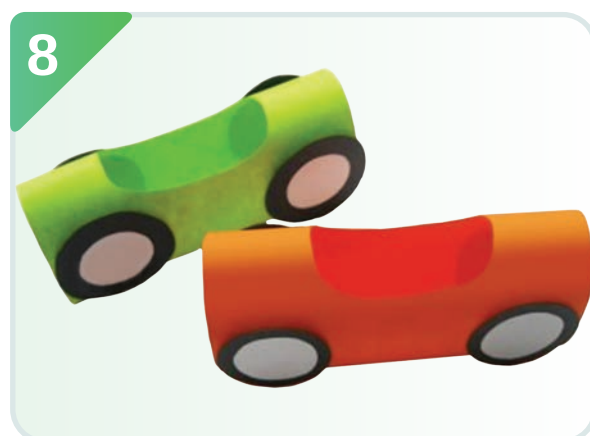
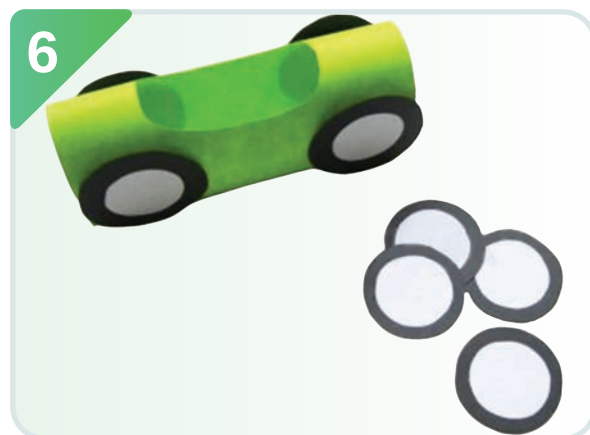


3



4





Origami usulynda özüňiz islän transport görnüşini ýasaň.

32—33-
nji
dersler

“JADYLY ILIKLER” TEMASYNDA KOMPOZISIYA YASAMAK

Ilik kiçi ölçegdäki enjam bolup, gaty materiallardan taýýarlanýar. Iliklerden ähli geým görnüşleri, aýakgaplar hem-de başga zatlaryň böleklerini özara birikdirmekde peýdalanylýar.

Iligiň görnüşleri



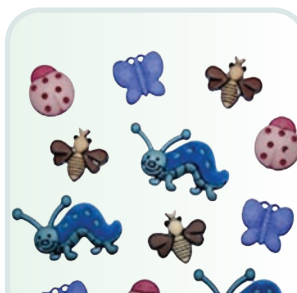
Reňkine görä



Şekline görä



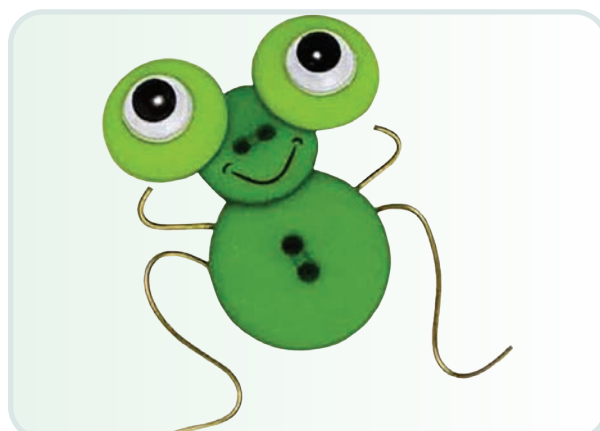
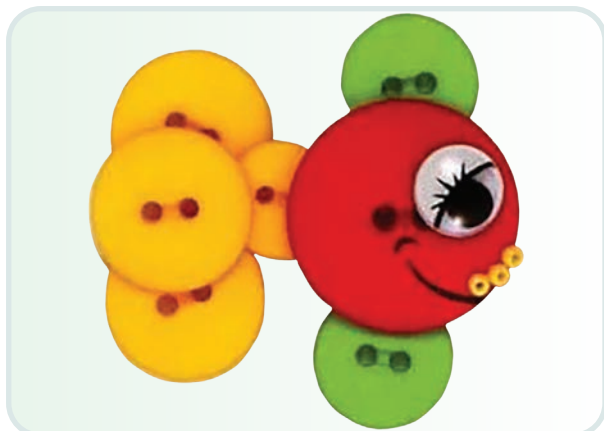
Ölçegine görä



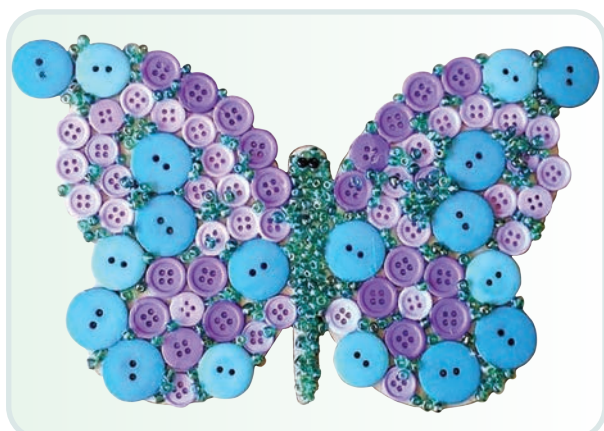
32—33-nji

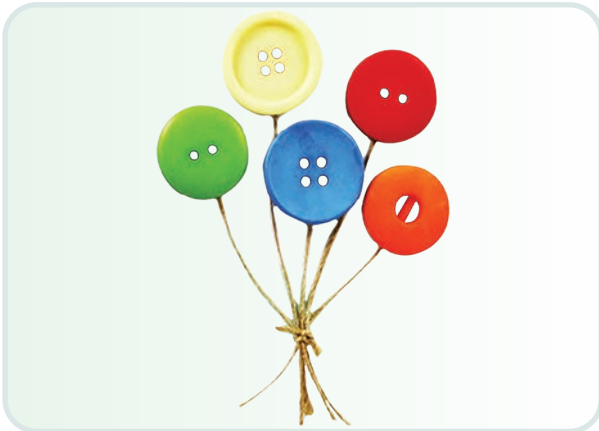
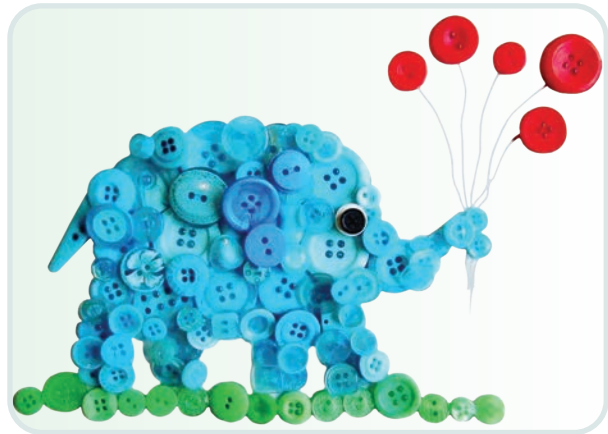
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Ilklerden kompozisiya yasamak





Ilklerden özüñiz islän şekilleri ýasaň.

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