Title Page

Some famous Iranian scientists/scholars/elites

Who are they?
What are they famous for?



Persian literature

LESSON 3

Avicenna

nowledgeable

scientific

scientist

physician

astronomer

Thinker

gain/acquire/seek/get /have knowledge

information, understanding, skill

search for/look for

Value = importance / worth Valueless/ valuable

Seek knowledge from the cradle to the grave

a hole for burying a dead body

Holy Prophet (PBUH)¹

رُه کھوارہ تا کور دائش بھو

1. Peace Be Upon Him

سلام خدا بر او باد

Peace=no war/in a good condition

Holy=sacred/saint

Prophet = God's messenger

Holy=connected with God or a particular religion

Peace Be Upon Him = سلام و درود خدا بر او باد

How does knowledge develop?

How are products made?

What are the name of these places?

Who works there?

Who?

What?

laboratory experiments/tests

do experiment scientific research testing

in a/the laboratory

the school lab

study
research
borrow#lend
volume
at a/the library
in a/the library

a public/university/school library

refine=make pure

a sugar refinery
an oil refinery
petroleum
petrochemicals
crude oil

do research



A library

Sikits

A refinery





pharmacist chemist physician

liberarian

experts engineers technicians

researcher astronomer

fields of study: medicine, biology, chemistry, astronomy, math, physics, art, language, philosophy, translation

Necessity is the mother of invention

invent

inventor inventive inventively invention

innovation

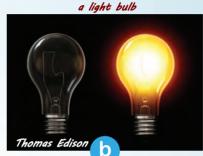
Who invented these amazing things?



A. Match the pictures with the sentences. . The room was lit only by a single 40-watt light bulb



take people to another place



turn on/off a light

turn on turn off dark#light

light up

a telephone



a digital camera



This gives us an easier life when there is no light

People use this to talk with someone in another place.

We use this to take and keep pictures very easily.

This helps us travel very fast to far places.

قديمى تىرين

جدید ترین

B. Order the followings from 'oldest to newest'.

Charles and Vincent Chevalier (camera box), French Nicéphore Niépce (the inventor of photography)

in camera off camera on camera

in front of the camera

Camera

a TV/video camera



digital camera



turn on turn off light up

Light bulb







telephone rings · make a telephone call over the telephone by telephone on the telephone

Telephone







plane takes off plane lands fly a plane by plane

a plane ticket Airplane

a plane crash





the oldest

Airplane carries people and things very fast

· LESSON

What kind of knowledge do we need to build a skyscraper? Who are involved constructing in such buildings? What's the difference between old and modern laboratories?

What are the fields of study for Iranian nuclear scientists?

A. Match the pictures with the words.

architecture



skyscraper

well-designed

materials

well arranged and equipped



- c scientists
- a laboratory
- (a) a building



a modern age/car/building

B. Choose an appropriate adjective for each word above.

modern ... buildings, laboratories

Iranian ... scientists/ poets/ engineers / architects

An old ... laboratory, building, friend

medicine= the study and treatment of diseases and injuries

famous= well-known#infamous=notorious

build= make /construct#destroy coo!!#awful/terrible

I believe that it is believed that i can believe my ea believe (you) me=used to emphasize that you strongly believe what you are saying accept my words

مشور دامی دارو-پزشکی medicine,famous, build, ساختن Believe me! پاور کی Cool!

believe

belief



ور حال تدک Roya and Mahsa are leaving the library.

Roya: When I came in, you were reading a book. What was it? **Mahsa**: I was reading a book about famous Iranian scientists.

Roya: But such books are not very interesting.

Mahsa: At first I had the same idea, believe me!

at last at the end

Roya: Did you find it useful?

Mahsa: Oh yes. Actually I learned many interesting things about our

scientists' lives.

Roya: Like what? teach

Mahsa: For example Razi¹ taught medicine to many young people while he was working in Ray Hospital. Or Nasireddin Toosi

built Maragheh Observatory when he was studying the planets.

Roya: Cool! What was the name of the book?

Mahsa: Famous Iranian Scientists.

He's a really cool guy.

Jt's a cool movie.

1. Also Rhazes in English

cool#warm

Questions

شفاهي Answer the following questions <mark>orally</mark>.

- 1. Were Mahsa and Roya in a laboratory?
- 2. Who came to the library sooner, =earlier Mahsa or Roya?
- 3. Do you know any interesting story about famous scientists?



كانَّلْفُ الكل كيستُ } رصد خانه مراغه را چه كسى ساختٍ } Who discovered the alcohol?
Who built Maraghe Observatory?
Does Iran have any famous scientists?
Can you name some Iranian scientists?

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have a belief hold a belief

Don't believe a word of it believe (that)... believe in believe of

Do you believe in God?

·Are you sure he was lying? I can't believe that of him





A. Look, Read and Practice.

make a great attempt/effort



سعی می کند Melika tries hard to learn English.

try to do something try doing something trial version tried try for try on energy-energetic

He is jumping up and down in enjoyment



active inactive

less energetic more energetic more active less active

be active physically

فعال- پر ائرڙی Babak is an energetic boy.

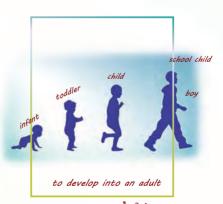
having or needing a lot of energy

energetic exercise highly energetic



انهام دادق آزمایشان The students do experiments in the school laboratory.

do/perform/conduct /carry out an experiment laboratory experiments in an experiment during an experiment experiment on somebody/something experiment with somebody/something



پئر گ شدن Children grow up quickly= rapidly. به سرعت

> become older to develop gradually

> > Why don't you grow up?

scientific/medical/academic research
do/conduct/carry out research



انچام دادڻ تعقيق She is <mark>doing research</mark> on blood cells.

research on something/somebody

feel well = health condition feeling= emotion

feel sick feel better feel sorry feel bad

feel + adj= feel happy/sad

feel good/bad/well

feel - felt



احساس صُعِفَ داشْتَن He has the flu and feels weak.

#feel strong

catch the flu have the flu

successes and failures



موفقیّن #impossible
No success is possible
without hard work.

سحْتُ كوشَّى

success#failure key to success have success in make a success of

achieve/attain/enjoy success

a chance of success a hope of success



Edison invented produce or design something that has not existed before the first light bulb.

invent inventor inventive inventively invention

innovation

·Louis Braille invented an alphabet to help blind people

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research in research into research on

· develop new technology solve developing products solustion develop a strategy/system/program solve an equation/a puzzle=do a puzzle develop a method/model/technique solve the problem solve an issue/a crisis to make/create/develop/produce/generate/form an attempt to solve something something from/out of something to make/form something into something solve a mystery/ a secret to make/produce wine solve someone's difficulties to create/develop a new product to create/produce/generate income/profits/wealth to produce/generate electricity/heat/power B. Read and Practice. حل کردن- پیدا کردن چواپ **solve**: to find an answer to a problem مسئله– مشکل developed We can help you solve your problems. countries developing under the development توسعه يافتن - پررگ و پهتر شدن *raise* **develop**: to grow or change into a stronger, larger or better form improve This book can develop your speaking skill. مهارت belief in something/somebody have/hold belief that... ياور – اعتقاد a widely/commonly held belief **belief**: something that you believe in the belief that... Her belief in Allah gave her hope during difficult times. religious/political beliefs ·There is a general belief that things will soon get better beyond belief ترک کردن- رها کردن- واگڈاردن in the belief that quit / give up:to stop doing something belief about .Fortunately, his father is going to <mark>quit</mark> smoking *تسليم شُدڻ / کردڻ- گاميد شُدڻ* ادامه تدادن He gave up his work without saying anything to us. leave/abundant He gave himself up to the police. هراران His teachers seem to have given up on him. تعداد ژیادی اژ thousands of: a large number of things or people There are thousands of things I want to do.

manufacture

do - create - develop - produce - generate make= form ·She makes her own clothes Who's doing the food for the party? make a table/dress/cake create jobs/wealth الحاد شغل /سرماله to develop new software ریز پردازنده a factory that produces microchips توليد گرما/برق/الكتريسته to generate heat/power/electricity ·Brainstorming is a good way of generating ideas بأرش ذهنی/فکری Rearrange the letters to form a new word شكل دادن H+ O forms H2O When hydrogen and oxygen combine, they form a liquid we call it water