

Student Worksheets – Actuarial & Data ESP (B1–B2)

For Students

Purpose: These worksheets help you prepare and speak like a professional.

Instruction: Do NOT translate word by word. Focus on ideas, trends, and risks.

WORKSHEET 1 – AI & BIG DATA IN INSURANCE

1. Warm-Up (Think & Speak)

Answer orally or in short notes: - Where do companies use AI today? - Is AI mainly about speed, accuracy, or cost?

2. Reading / Viewing

Choose ONE resource: - Deloitte – AI in Insurance

<https://www2.deloitte.com/insights/us/en/industry/financial-services/artificial-intelligence-insurance.html> -

Society of Actuaries – AI and the Actuary

<https://www.soa.org/resources/essays-monographs/2020/ai-and-the-actuary/> - IBM Video – What is AI?

<https://www.ibm.com/topics/artificial-intelligence>

3. Key Ideas Extraction

Complete: 1. One use of AI in insurance is ___. 2. **One benefit of AI is** ___. 3. One risk or limitation is _____.

4. Vocabulary Practice

Match the word to the idea: - Artificial intelligence → ___ - **Big data** → ___ - Bias → _____

Complete the sentence: - AI models can be more ___ than traditional models.

5. Speaking Task

Explain AI in insurance to a manager:

"AI is used in insurance mainly to..."

WORKSHEET 2 – CLIMATE RISK & REINSURANCE

1. Warm-Up

- What climate events cause financial losses?
 - Are these losses increasing?
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2. Reading / Viewing

Choose ONE resource: - Swiss Re – Natural catastrophes and insured losses

<https://www.swissre.com/institute/research/sigma-research.html> - Munich Re – NatCat losses

<https://www.munichre.com/en/risks/natural-disasters-losses.html> - Munich Re Video – Why reinsurance matters

<https://www.munichre.com/en/company/media-relations/media-center/videos.html>

3. Key Ideas

1. The main trend is _____.
 2. The main risk for insurers is _____.
 3. One consequence is _____.
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4. Vocabulary Practice

Complete: - Loss _ = **how often losses happen** - Loss _ = how big losses are

Correct the sentence: - *Losses are more and more important.* → _____

5. Speaking Task

Explain a premium increase to a client:

"Based on recent data, we observe..."

WORKSHEET 3 – DEMOGRAPHICS & PENSION SUSTAINABILITY

1. Warm-Up

- Are people living longer today?
 - Why does this matter for pensions?
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2. Reading / Viewing

Choose ONE resource: - OECD – Ageing populations

<https://www.oecd.org/employment/ageingandemploymentpolicies.htm> - World Bank – Pensions and aging

<https://www.worldbank.org/en/topic/pensions> - OECD Video – Population ageing

<https://www.oecd.org/els/family/population-ageing.htm>

3. Key Ideas

1. One demographic trend: _____.

2. One pension risk: _____.

4. Vocabulary Practice

Match: - Life expectancy → ___ - **Dependency ratio** → ___ - Sustainability → _____

Complete: - Life expectancy is _____ than before.

5. Speaking Task

Explain pension sustainability to a policymaker:

"The main challenge for pension systems is..."

WORKSHEET 4 – PORTFOLIO MANAGEMENT & INVESTMENT RISK

1. Warm-Up

- Is it risky to invest in one asset?
 - Why do investors diversify?
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2. Reading / Viewing

Choose ONE resource: - Vanguard – Why diversification matters

<https://investor.vanguard.com/investor-resources-education/article/why-diversification-matters> - BlackRock – Portfolio diversification

<https://www.blackrock.com/us/individual/education/portfolio-diversification> - Khan Academy – Diversification and risk

<https://www.khanacademy.org/economics-finance-domain/core-finance/investment-vehicles-tutorial>

3. Key Ideas

1. One investment risk: _____.
 2. One benefit of diversification: _____.
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4. Vocabulary Practice

Complete: - A *_____* **is a group of investments.** - *_____* reduces risk by spreading investments.

5. Speaking Task

Explain portfolio strategy to a client:

"Diversification is important because..."

END OF STUDENT WORKSHEETS